

Study with us

About your course

Courses covered

Code	Title
PETARM	MSc Theoretical Physics with Advanced Research

You can find full details of your course in the *Programme Specification*.

Important points

- This course is run by the department of Physics Astronomy and Mathematics, and taught by staff from PAM's mathematical and theoretical physics research group. The group has internationally recognized research expertise in areas of theoretical physics including:
 - Supergravity, strings and generalized geometry
 - Scattering amplitudes in gauge theory
 - Integrability in quantum field theory
 - Quantum groups and integrable systems
- In addition to core topics including Quantum Field Theory and General Relativity, the teaching programme features a series of Recent Advances lectures, designed specifically to survey active topics in the field and bring students closer to the research frontier. Students will also be encouraged to be active participants in the research culture of the group, attending and contributing to seminars.
- The normal entry requirements for the programme are a good (2.1 or 1st class) Honours degree (or equivalent) in physics, mathematics, or a closely related subject, where the degree is accredited by a Professional Statutory Regulatory Body such as the IoP (or a body of equivalent standing in a related subject or overseas). However, we consider all applications on an individual basis, and we strongly encourage applications from applicants with non-traditional backgrounds/qualifications who can demonstrate their enthusiasm and potential.
- The MSc Theoretical Physics with Advanced Research degree takes 2 years of full-time study. The first year has 90 credits of core taught modules, and 30 credits of optional taught modules. In the second year, students take a 60 credit project together with 30 credits of taught material and the 30 credit Research Seminar module.
- The award of an 'MSc Theoretical Physics with Advanced Research' degree requires 240 credit points (of which at least 180 credits must be at level 7, and up to 60 credits can be at level 6). The 'Theoretical Physics Research Project' must be passed, and the 'Research Seminar' module must also be passed.

Academic Year

Academic Year 2021 – 2022

The University's academic year is made up of 3 Semesters. Normally most undergraduate programmes use Semesters A and B, additionally postgraduate programmes and specific undergraduate programmes use Semester C. Each of these is made up of teaching weeks followed by exams (the re-sit period falls within Semester C).

- Semester A runs from Monday 27 September 2021 to Friday 21 January 2022
- Semester B runs from Monday 24 January 2022 to Friday 13 May 2022
- Semester C runs from Monday 16 May 2022 to Friday 09 September 2022

Additional expenses

Description	Year	Mandatory/ Optional	Estimated cost
Texts to support curriculum	1	Optional	Undergraduate study requires extensive reading and access to reference works. Recommended texts are available in the Learning Resource Centre either as ebooks or printed material. Please note that availability of printed material may be limited so students may wish to purchase their own copies. The average price of a recommended text is £50, although you may be able to buy second-hand copies.