Programme Information

Programme Title	Programme Code	HECoS Code
Applied Paediatrics	See below	101325

Award	Length of Study	Mode of Study	Entry Point(s)	Total Credits	
				ECTS	CATS
PG Certificate in Applied Paediatrics - A3L521C	1 calendar year (12 months)	Part time	Annually in October	30	60
PG Diploma in Applied Paediatrics - A3L521D	2 calendar years (24 months)	Part time	Annually in October	60	120
PG Diploma in Applied Paediatrics (Neonatal) - A3L522D	2 calendar years (24 months)	Part time	Annually in October	60	120
PG Diploma in Applied Paediatrics (Acute Paediatrics) - A3L523D	2 calendar years (24 months)	Part time	Annually in October	60	120
PG Diploma in Applied Paediatrics (Specialist Paediatrics) - A3L525D	2 calendar years (24 months)	Part time	Annually in October	60	120
MSc in Applied Paediatrics - A3L5212 / A3L521	2-3 calendar years (24-36 months	Part time	Annually in October	90	180
MSc in Applied Paediatrics (Neonatal) - A3L5222 / A3L522	2-3 calendar years (24-36 months	Part time	Annually in October	90	180
MSc in Applied Paediatrics (Acute Paediatrics) - A3L5232 / A3L523	2-3 calendar years (24-36 months	Part time	Annually in October	90	180
MSc in Applied Paediatrics (Specialist Paediatrics) - A3L5252 / A3L525	2-3 calendar years (24-36 months	Part time	Annually in October	90	180

All students must initially apply for the Postgraduate Certificate. To progress to the Diploma and MSc programme, you must pass the Certificate programme. Students may elect to exit the programme after the first year having achieved the Postgraduate Certificate.

Ownership

Awarding Institution	Imperial College London	Faculty	Faculty of Medicine
Teaching Institution	Imperial College London	Department	Infectious Disease

Associateship	Diploma of Imperial College (DIC) (MSc only)	Main Location(s) of Study	Online

External Reference

Relevant QAA Benchmark Statement(s) and/or other external reference points	Master's degrees in medicine
FHEQ Level	Level 7- Masters
EHEA Level	2nd Cycle

External Accreditor(s) (if applicable)

External Accreditor 1:	N/A		
Accreditation received:	N/A	Accreditation renewal:	N/A

Collaborative Provision

Collaborative partner	Collaboration type	Agreement effective date	Agreement expiry date
N/A	N/A	N/A	N/A

Specification Details

Programme Lead	Deena-Shefali Patel
Student cohorts covered by specification	2024-25 entry
Date of introduction of programme	October 22
Date of programme specification/revision	August 23

Programme Overview

The programme has been designed for you – a paediatric health or allied health practitioner interested in the scientific and evidence base of paediatrics, research methodologies and advances, the health trajectories of children, population-based child health and ethics. It is anticipated that many of you will be postgraduate Specialty Trainee doctors in Paediatrics, however this online programme will be specifically designed to be multidisciplinary and therefore also suitable for other healthcare professionals working with children and young people. The programme offers the best of Paediatrics at Imperial College London and our healthcare partners with a focus on Neonatal Medicine, Paediatric Critical Care and Emergency ('acute') Medicine, and Speciality Paediatric subjects that focus on the current high impact paediatric conditions and the importance of optimising child health trajectories.

You will initially register for a PG Certificate in Applied Paediatrics. This can be awarded in its own right, or, on successful completion of this component of the programme, you may transfer to the PG Diploma or the MSc in Applied Paediatrics. The PG Certificate in Applied Paediatrics offers a grounding in the fundamentals of the application of paediatric science and knowledge to the field of child health. The Certificate year will contain collaboration with the Genomic Medicine postgraduate course enabling cross discipline interaction and learning. You will have a thorough introduction to fundamentals in Genomic Medicine via a core module to enable you to develop a focus on early identification of common childhood disease processes and clinical outcomes. This will be enhanced via the use of the spiral curriculum which has a focus on genomics throughout the course.

The acquired fundamental knowledge will continue to be a common thread throughout the ongoing Diploma year where you will learn to apply these skills critically and innovatively. The PG Diploma will allow you to develop your skills in more specialised subjects relevant to your own practice and research by having the option to choose a sub-

specialisation stream of specialist modules or stay truly general. You will choose a total of four elective modules. You will select the PG Diploma stream that you wish to follow in the summer before the start of the Diploma Academic year. However, should you wish to, you can choose four PG Diploma modules from any stream to emerge with a Diploma or MSc in Applied Paediatrics with no stream title listed in brackets after it.

This level gives you additional practice in transferrable skills such as presenting, case report writing, journal article writing and communication with different audiences, from professionals to patients and families.

The MSc adds rigorous academic training in research methods or systematic review culminating in completion of an MSc dissertation. The dissertation will consist of a research project report conducted in your own working environment or a systematic review. Through this, you will gain experience in techniques which may include project design, data analysis and presentation, literature searches and critical appraisal. Work will be prepared for potential presentation at scientific and clinical meetings and potentially for publication. For medical and nursing staff, the programme will integrate well with clinical training and working enhancing your ability to critically evaluate management strategies and future research and innovation opportunities. It is possible for projects to be carried out partly or wholly at an external organisation.

Learning Outcomes

PG Cert:	1. Apply insights into human development from conception to maturity, including early life programming and how this affects health trajectories. 2. Critically evaluate information from a variety of sources, including scientific publications, to determine its value in relation to the practice of paediatrics. 3. Critically appraise fundamental concepts, including areas such as genomics and ethical constructs, underpinning the planning of care of paediatric patients at individual and population levels. 4. Compare and contrast different approaches to research within paediatrics to select the appropriate research methodology to answer different questions.
PG Diploma:	5. Critically appraise the current management within the selected areas of specialty, integrating the critical fundamental concepts into pathways of care 6. With reference to the evidence base, critically evaluate uncertainties and challenges within paediatric healthcare to inform patient management and future directions of innovation and research. 7. Communicate effectively complex healthcare information to a wide variety of audiences within professional contexts. 8. Anticipate, determine, and plan the need for transition from neonatal and/or paediatric services.
MSc:	9. Critically assess and evaluate the current literature in relation to a research question and design a project to investigate it. 10. Plan, conduct and write-up an original research project or systematic review demonstrating evidence of compliance with any necessary regulatory/ethical/legal processes, the appropriate use of established research methodology and data analysis using relevant software. 11. Communicate research findings in various formats to a range of diverse audience.

The programme team has designed Intended Learning Outcomes (ILOs) appropriate to level 7 of Frameworks for Higher Education Qualifications of UK Degree-Awarding Bodies (FHEQ) to allow you to demonstrate mastery of a complex and specialised areas of paediatrics. By achieving the ILOs, you will be well equipped to go on to utilise the skills you have gained in a professional capacity   and employ those skills to conduct research.

The Imperial Graduate Attributes are a set of core competencies which we expect students to achieve through completion of any Imperial College London degree programme. The Graduate Attributes are available at:
https://www.imperial.ac.uk/about/education/our-graduates/

Entry Requirements

Academic Requirement	The minimum requirement is normally a 2:1 UK Bachelor's Degree with Honours in a healthcare related subject such as Nursing, Pharmacy, Physiotherapy, MBBS or similar health science (or a comparable qualification recognised by the university). For further information on entry requirements, please go to PG: www.imperial.ac.uk/study/apply/postgraduate-taught/entry-requirements/accepted-qualifications/
Non-academic Requirements	You will be considered for entry into the programme if you have substantial work experience in related healthcare field subject to an interview with the programme director.
English Language Requirement	Standard requirement (PG) Please check for other Accepted English Qualifications
Admissions Test/Interview	All applicants are interviewed prior to an offer of a place, whenever possible, either in person or via an electronic platform (such as ZOOM or TEAMS) or by telephone. Applicants who are a Special case need to attend a SQE (Special Qualifying Exam), which is a written exam demonstrating a sufficient level of background knowledge, as well as the interview.

The programme's competency standards documents are available from the department.

Learning & Teaching Approach

The fully online Applied Paediatrics programme seeks to embed your educational experience within a research environment by utilising an evidence-based approach to teaching and learning. Students are ultimately encouraged to contribute to the evidence base via their own evaluation and future research. The first (Certificate) year of the programme emphasises fundamentals of practice such as science, evidence and research as well as genomics, ethics and optimisation of paediatric health trajectories. These aspects will continue to spiral through the ongoing curriculum no matter the stream chosen in the Diploma year.

Each module consists of several live synchronous interactive sessions on a video-conferencing platform as well as weekly online tasks and related activities for you to complete individually and as small group. Innovative digital technology and solutions are utilised to bridge physical boundaries and provide interactive and immersive elements. Minimum specifications for technology are specified in the 'Additional Programme Costs' box. This is supported by case-based learning and practical guidance. All teaching is delivered by highly experienced practitioners and educators harnessing the strengths at Imperial and our partners.

You are encouraged to be responsible for identifying both your areas of knowledge and your areas of lack of knowledge and use the programme resources and synchronous teaching sessions to learn in collaboration with the teaching team, your peers and through self-directed learning. You will be encouraged to be co-creators of learning materials and thus create an engaging and evolving learning and teaching environment.

The part time programme modules consist of various teaching methodologies such as interactive question & answer elements, discussions and sharing of experiences from you. These are primarily active teaching methodologies involved and may include, but are not limited to:

- Asynchronous online specialist lectures (with plenty of opportunity for interaction) by experts in your field of learning from Imperial and other top-rated institutions
- Expert panel discussions with student interaction
- Virtual immersive simulations with interactive question and answer elements
- Group work and group presentations e.g. preparing and delivering Pro-Con debates, creating, and presenting a research proposal with teaching staff and peer feedback
- Online learning modules, quizzes and reading lists all delivered via the Virtual Learning Environment (VLE)
- Signposting to online learning and core and supplementary reading materials as well as useful videos, websites and conferences.
- Supportive Tutorials, available to join online
- Networking and cohort building online through group work and panel discussions

- You will build with your fellow students a repository of joint learning utilising collaborative software (such as OneNote and Padlet, or the VLE 'journal') which can be downloaded to keep at the end of each module. Thus, creating a learning environment in which you are engaged as co-creators of learning and benefit equally from new ways of learning and teaching

By the end of the programme, we aim for you to be able to innovatively apply your new skills to tackling complex real-world problems, understand and value different cultures and perspectives, and display a strong sense of professional identity.

Overall Workload

Your overall workload consists of facilitated independent learning and synchronous live sessions online. While your actual contact hours may vary according to the elective modules you choose to study, the following gives an indication of how much time you will need to allocate to different activities at each level of the programme. At Imperial, each European Credit Transfer and Accumulation System or ECTS credit taken equates to an expected total study time of 25 hours. Therefore, the expected total study time is 750 hours per 30 credits; this includes all teaching and learning time as well as time spent on assessments.

The teaching and task weeks of each module span over 4-6 weeks with 7-10 hours of learning per week. A maximum of 5 hours per week is spent synchronously in group sessions with faculty. Asynchronous work may be independent or as a group. This work will be directed and set and will involve tasks that you complete at your own pace within each week. These elements will form approximately 80% of the time during the taught portion of your module. Additionally, programme time will be spent following the taught module on self-directed learning and assessment/assignment preparation, submission and where appropriate, presentation.

Assessment Strategy

Assessment Methods

Assessment is treated as a dialogue between the you and the teachers. The student ownership of learning and improvement is stressed on this course. The formative assessments help you to practise and develop skills in individual and group settings and will provide a stepping stone to the summative assessment either by building the style of assignment (such as, presenting to a group) or the content development, for example, proposing a PICO framework question and receiving feedback which then leads into your summative assignment of a research proposal.

The teacher and peer feedback you receive will inform you on how to improve your performance and you can also learn from observation of good practice modelled by presenters, module leaders and peers. Self-reflection and learning are encouraged from the different methods of feedback you receive, which may be verbal or written, informal or formal.

The summative assessments are designed to assess the Intended Learning Outcomes employing real-world outputs, such as poster creation and presentations. Each assessment is carefully selected to complement the module to produce an authentic output related to the discipline. These assignments lead to the development of transferable professional skills that will be useful in your future career. Furthermore, you will practically demonstrate the graduate attributes that you will have achieved. You will show gains in communication skills in different modalities from written platforms to presentation techniques.

Exam style timed assessments such as short answer questions are present though infrequently. The purpose is to assess your grasp of the materials in that key module. The exam tests your knowledge and ability to apply learning to case studies. It is an authentic assessment as there are often exams included as you develop in your career.

Summative assessments will be released near the beginning of the module; you will also have an opportunity to discuss the assessment with the module team within a briefing toward the end of the taught module. Assessments submission dates will be between 3-4 weeks following the end of the taught elements of the module.

The final summative assessment is the MSc dissertation and viva which are based on your original research or systematic review that you have performed during the programme. This is the culmination of all of your learning and demonstrates the practical application of the lessons learned. It demonstrates not only an understanding of the research process, but how you communicate your work in both written and oral forms.

Academic Feedback Policy
Feedback will be a continual process with verbal feedback from staff and peers during synchronous sessions, written feedback on posted work (such as on the class notebook) and graded feedback with comments and guidance for improvements on the final written assessment. We also welcome feedback from you to help us to optimise your learning journey and to help us to improve the course. Formative feedback will help you to develop the knowledge and skills to enable you to meet the Intended Learning Objectives and to excel in the graded summative (final) assessment(s) for each module. Summative assessment: Marked work will be returned with written comments and feedback within 2-4 weeks of submission. Imperial's Policy on Academic Feedback and guidance on issuing provisional marks to students is available at: www.imperial.ac.uk/about/governance/academic-governance/academic-policy/exams-and-assessment/
Re-sit Policy
Imperial's Policy on Re-sits is available at: www.imperial.ac.uk/about/governance/academic-governance/academic-policy/exams-and-assessment/
Mitigating Circumstances Policy
Imperial's Policy on Mitigating Circumstances is available at: www.imperial.ac.uk/about/governance/academic-governance/academic-policy/exams-and-assessment/

Additional Programme Costs
Any additional costs relevant to this programme which are not included in students' tuition fees:

Description	Mandatory/Optional	Approximate cost
Course materials	Mandatory	Provided
PPE if attending campus (during pandemic conditions)	Mandatory	£5
VR goggles - These are not mandatory for the VR video experience. As such our online student community will be able to access the interactive website experience in their desktop/tablet without VR goggles. - However, the VR experience may be accessed via VR devices. More low-end devices often require your phone to be inserted. Your phone will need to be capable of running the 360 videos (current models available require Android4.4, iOS 8.0).	Optional	£5-50 one off (higher end models cost £400)
Access to computer + internet Minimum system requirements: • An internet connection – broadband wired or wireless (3G or 4G/LTE) • Speakers and a microphone – built-in, USB plug-in, or wireless Bluetooth • A webcam or HD webcam - built-in, USB plug-in • The VLE supports the last two major versions of browsers still supported by the maker of the browser. That is Chrome, Safari, Firefox, Edge, regardless of operating system.	Mandatory	Unspecified

• There is no specific minimum broadband speed for utilising the chosen VLE.		

Important notice: The Programme Specifications are the result of a large curriculum and pedagogy reform implemented by the Department and supported by the Learning and Teaching Strategy of Imperial College London. The modules, structure and assessments presented in this Programme Specification are correct at time of publication but might change as a result of student and staff feedback and the introduction of new or innovative approaches to teaching and learning. You will be consulted and notified in a timely manner of any changes to this document.

Programme Structure[1]					

Year 1 – FHEQ Level 7
You will study all core modules.

Code	Module Title	Core	Group	Term	Credits
INFE70028	Science, Evidence and Research Fundamentals in Paediatric Practice	Core	N/A	Autumn-Spring	7.5
INFE70029	Fundamentals of Human Genetics and Genomics	Core	N/A	Autumn	7.5
INFE70030	Law and Ethics in Paediatrics	Core	N/A	Spring	5
INFE70031	Assessment and Optimisation of Health Trajectories in Childhood	Core	N/A	Summer	5
INFE70032	Child Population Health and Social Paediatrics	Core	N/A	Summer	5
				Credit Total	30

Year 2 - FHEQ Level 7
You will study a choice of 4 elective modules from one stream. You should choose a Group A or N or S. Within each Group you must choose 4 modules.

Code	Module Title	Elective	Group	Term	Credits
INFE70033	Perinatal Care	Elective	N	Autumn	7.5
INFE70034	Neonatal Respiratory Management	Elective	N	Autumn	7.5
INFE70035	Paediatric Trauma and Emergency Medicine	Elective	A	Autumn	7.5
INFE70036	Principles of Paediatric Allergy	Elective	S	Autumn	7.5
INFE70037	Paediatric Respiratory Medicine	Elective	A+S	Spring	7.5
INFE70038	Neonatal Nutrition and Gastrointestinal Conditions	Elective	N	Spring	7.5
INFE70039	Paediatric Stabilisation and Critical Care	Elective	A	Spring	7.5
INFE70040	Advances and Management in Endocrinology	Elective	S	Spring	7.5
INFE70041	Challenges in Neonatal Encephalopathy	Elective	N	Summer	7.5
INFE70042	Paediatric Infection	Elective	A+S	Summer	7.5
INFE70043	Paediatric Cardiology	Elective	A+N	Summer	7.5
INFE70044	Adolescent Health (not running in 2024/25)	Elective	S	Summer	7.5
				Credit Total	30

Year 2 or 3 - FHEQ Level 7

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[1] **Core** modules are those which serve a fundamental role within the curriculum, and for which achievement of the credits for that module is essential for the achievement of the target award. Core modules must therefore be taken and passed in order to achieve that named award. **Compulsory** modules are those which are designated as necessary to be taken as part of the programme syllabus. Compulsory modules can be compensated. **Elective** modules are those which are in the same subject area as the field of study and are offered to students in order to offer an element of choice in the curriculum and from which students are able to select. Elective modules can be compensated.

You will study all core modules					
Code	Module Title	Core	Group	Term	Credits
INFE70027	Research & Professional Skills in Paediatrics	Core	N/A	Autumn-Summer	30
				Credit Total	30

Progression and Classification

All students must initially apply for the Postgraduate Certificate. To progress to the Diploma and MSc programme, you must pass the Certificate programme. You may elect to exit the programme after the first year having achieved the Postgraduate Certificate. If you choose to continue with the Diploma or MSc programme at this point, you will not receive the Certificate award as only one certificate is awarded at the conclusion of your period of study on the programme.

Application to continue to MSc can occur at the end of the Certificate year or the Diploma year. Where you defer entry to the MSc until year 3, you must have been successful in the Diploma course.

The maximum time that you will have to complete your MSc is usually 3 years. Once you have formally chosen to exit the programme, there is no point of re-entry. However, you may defer entry into the Diploma year (without exiting) for a maximum of ONE year before re-joining - a one-year interruption of studies (IOS) may be applied for in exceptional circumstances but is not guaranteed, however all studies must be completed before a five-year period. Therefore, the longest possible period from entry to Certificate to completion of the MSc (including any interruptions) will be 5 academic years in total.

All modules in the Cert year are core and must be successfully completed for the award or progression. During the diploma year you must choose 4 of the elective modules. You may elect to choose a Stream (A, N or S); this will lead to a sub-specialty award on successful completion. A stream consists of 5 elective modules of which 4 should be selected and completed. During the MSc year students that have elected to Stream in the Diploma year should complete a project or systematic review consistent with their Stream choice.

Award and Classification for Postgraduate Students

Award of a Postgraduate Certificate (PG Cert)
To qualify for the award of a postgraduate certificate you must have a minimum of 30 credits at Level 7.

Award of a Postgraduate Diploma (PG Dip)
To qualify for the award of a postgraduate diploma you must have passed modules to the value of no fewer than 60 credits at Level 7 and no more than 10 credits as a Compensated Pass.

Award of a Masters Degree (MSc)
To qualify for the award of a postgraduate degree you must have:
1. accumulated credit to the value of no fewer than 90 credits at level 7.
2. and no more than 15 credits as a Compensated Pass.
3. met any specific requirements for an award as outlined in the approved programme specification for that award.

Classification of Postgraduate Taught Awards

The university sets the class of Degree that may be awarded as follows:
1. Distinction: 70.00% or above.
2. Merit: 60.00% or above but less than 70.00%.
3. Pass: 50.00% or above but less than 60.00%.

For a Masters, your classification will be determined through the Programme Overall Weighted Average and the designated dissertation or final major project module meeting the threshold for the relevant classification band.

Your degree algorithm provides an appropriate and reliable summary of your performance against the programme learning outcomes. It reflects the design, delivery, and structure of your programme without unduly over-emphasising particular aspects.

Programme Specific Regulations

N/A

Supporting Information
The Programme Handbook is available from the department.
The Module Handbook is available from the department.
Imperial's entry requirements for postgraduate programmes can be found at: www.imperial.ac.uk/study/apply/postgraduate-taught/entry-requirements/accepted-qualifications/
Imperial's Quality & Enhancement Framework is available at: www.imperial.ac.uk/registry/proceduresandregulations/qualityassurance
Imperial's Academic and Examination Regulations can be found at: www.imperial.ac.uk/about/governance/academic-governance/regulations
Imperial College London is an independent corporation whose legal status derives from a Royal Charter granted under Letters Patent in 1907. In 2007 a Supplemental Charter and Statutes was granted by HM Queen Elizabeth II. This Supplemental Charter, which came into force on the date of Imperial's Centenary, 8th July 2007, established Imperial as a University with the name and style of "The Imperial College of Science, Technology and Medicine". www.imperial.ac.uk/admin-services/secretariat/college-governance/charters/
Imperial College London is regulated by the Office for Students (OfS) www.officeforstudents.org.uk/advice-and-guidance/the-register/
This document provides a definitive record of the main features of the programme and the learning outcomes that you may reasonably be expected to achieve and demonstrate if you take full advantage of the learning opportunities provided. This programme specification is primarily intended as a reference point for prospective and current students, academic and support staff involved in delivering the programme and enabling student development and achievement, for its assessment by internal and external examiners, and in subsequent monitoring and review.