

Orthopaedics

Postgraduate Diploma & MSc Courses



THE UNIVERSITY OF
BUCKINGHAM



Year 1

Year 1, comprising of 6 modules, each of 6 weeks duration, is designed to be practical and clinically focused. The course is designed to be practical and clinically focused.

Year 2

The MSc runs over 2 calendar years, with the first year comprising of the Postgraduate Diploma. The second year starts with an initial 10 week online module to develop skills in critical appraisal and knowledge of research methodologies. Students then complete the professional project module.

Why study Orthopaedics with us?

Our Orthopaedics Postgraduate Diploma and MSc are delivered entirely online and are completely flexible to fit around your other commitments.

The demand for orthopaedic specialists has been increasing worldwide, particularly in developed and developing countries. In developed countries, the ageing population is one of the main contributing factors to the increasing demand for orthopaedic specialists

In developing countries, the demand for orthopaedic specialists is also increasing due to population growth, urbanisation, and changes in lifestyle.

The programme would provide students with an increased knowledge of musculoskeletal disorders, including the assessment, diagnosis, management, and treatment measures required.

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Orthopedics is an essential part of many healthcare roles. In general practice, at least 20% of patient visits are musculoskeletal-related and musculoskeletal cases make up 20-30% of A&E visits.

This makes orthopedics one of the most relevant specialties in everyday clinical practice—more than many other fields.

Dr Dr.Firas Arnaout Learnia | Diploma MSc Programme Leader

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Orthopaedics Postgraduate Diploma

Course Modules - Year 1

Our online Orthopaedics Postgraduate Diploma allows you to study for just one calendar year and is a part-time, distance-learning course. The course is worth 120 credits and comprises six modules of 20 credits, each running over a period of six weeks

Module 1: Advanced Principles in Orthopaedics

Aim of the module:

- To equip healthcare professionals with in-depth knowledge and understanding of the fundamental aspects of trauma and orthopaedics, focusing on anatomy, biomechanics, the healing process, X-ray interpretation, and clinical examination techniques.

Synopsis of module content:

- Fundamentals of trauma and orthopaedics
- Detailed anatomy relevant to T&O
- Biomechanics of musculoskeletal systems
- Healing processes of bones and tissues
- Principles and techniques of X-ray interpretation
- Clinical examination methods in orthopaedics

On completion of this module, students will be able to:

1. Demonstrate a systematic understanding of anatomy, biomechanics, healing processes, X-ray interpretation, and clinical examination in trauma and orthopaedics (T&O).
2. Critically analyse and evaluate complex information and research findings related to advanced principles of trauma and orthopaedic care.
3. Apply advanced knowledge to clinical scenarios, in a range of settings, by synthesising and interpreting complex findings that are communicated effectively for patient management

Module 2: Orthopaedic Trauma and Emergencies

Aim of the module:

- This module focuses on the principles and practices of managing acute injuries, emergency interventions, and post-traumatic care in orthopaedics.

Synopsis of module content:

- Introduction to Orthopaedic Trauma
- Classification and Management of Fractures
- Emergency Care Protocols and Triage
- Non-surgical Interventions
- Surgical Interventions
- Case Studies and Practical Applications

On completion of this module, students will be able to:

1. Demonstrate a critical knowledge and understanding of the principles governing the management of orthopaedic trauma and emergencies, including comprehensive fracture classification and the application of rigorous emergency care protocols.
2. Systematically analyse and critically evaluate complex trauma cases to develop and justify evidence-based management plans grounded in current evidence and best practices.
3. Apply advanced knowledge of emergency interventions, including initial stabilisation and appropriate surgical or non-surgical treatments.

Module 3: Paediatric Orthopaedics (Elective and Trauma)

Aim of the module:

- To equip students with an in-depth knowledge of paediatric orthopaedics, focusing on both elective and trauma cases. This module aims to equip students with the knowledge and understanding necessary to diagnose, manage, and treat orthopaedic conditions in children.

Synopsis of module content:

- Introduction to paediatric orthopaedics
- Common elective orthopaedic conditions in children
- Trauma-related orthopaedic injuries in children
- Diagnostic methods and imaging techniques
- Surgical and non-surgical treatment options
- Postoperative care and rehabilitation

On completion of this module, students will have:

1. Critically apply a systematic understanding of the principles and practices of paediatric orthopaedics to a range of settings, encompassing both elective and trauma-related conditions.
2. Critically appraise and synthesise information from clinical assessments and imaging studies to formulate and justify advanced management plans for paediatric orthopaedic patients.
3. Apply and critically evaluate advanced clinical skills in diagnosing, treating, and managing paediatric orthopaedic conditions, ensuring evidence-based practice and patient-centred care.

Module 4: The Spine (Trauma and Elective)

Aim of the module:

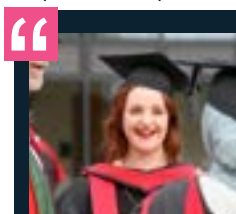
- To equip healthcare professionals with an advanced understanding of the spine, covering both trauma and elective conditions, with an emphasis on diagnosis, management, and treatment strategies.

Synopsis of module content:

- Anatomy and Biomechanics of the Spine
- Pathophysiology of Spinal Trauma
- Elective Spinal Conditions
- Diagnostic Imaging of the Spine
- Surgical Management of Spinal Conditions
- Non-Surgical Management and Rehabilitation

On completion of this module, students will be able to:

1. Critically evaluate the latest research and evidence-based practices related to the anatomy, biomechanics, pathophysiology, and treatment options for spinal conditions, both traumatic and elective.
2. Critically implement knowledge into a patient-centred approach to diagnose, manage, and treat a variety of spinal conditions, considering the individual's needs, preferences, and overall well-being.



Doing a course, all online is a lot more convenient for me around my clinical role so that's why I chose to study with Learn... I really like how flexible the course was, I liked the freedom I got with the professional project and I was well supported throughout the whole 2 years!

- Lisa Jayne Edwards, Medical Education MSc graduate

Module 5: The Upper Limb

Aim of the module:

- To equip students with an advanced understanding of the anatomy, pathology, clinical examination, and treatment modalities related to the upper limb in the field of orthopaedics.

Synopsis of module content:

- Detailed anatomy of the upper limb
- Common upper limb pathologies
- Clinical examination techniques for the upper limb
- Imaging modalities for diagnosing upper limb conditions
- Surgical and non-surgical treatment options
- Rehabilitation and post-operative care

On completion of this module, students will be able to:

1. Demonstrate a comprehensive knowledge and understanding of the anatomical and pathological features of the upper limb, and critically evaluate the latest research and evidence-based practices relating to clinical and imaging techniques used in diagnosis and treatment.
2. Critically evaluate the latest research and evidence-based practices related to upper limb conditions and their management.

Module 6: The Lower Limb

Aim of the module:

- To equip students with an advanced understanding of the anatomy, biomechanics, pathophysiology, and clinical management of conditions affecting the lower limb, including the hip, knee, ankle, and foot.

Synopsis of module content:

- Anatomy and Biomechanics of the Lower Limb
- Common Injuries and Conditions of the Hip
- Common Injuries and Conditions of the Knee
- Common Injuries and Conditions of the Ankle and Foot
- Surgical Treatment Options for Lower Limb Conditions
- Non-Surgical Treatment and Rehabilitation

On completion of this module, students will be able to:

1. Demonstrate a comprehensive knowledge and understanding of the anatomical, biomechanical, and pathological aspects of lower limb conditions, and the principles of their management.
2. Critically analyse complex clinical cases involving the lower limb and systematically evaluate the latest evidence-based treatment options.



"When I enrolled into the course I had no idea about the opportunities it would provide me with. Having my first paper published through this course helped me overcome my apprehensions of academic writing and made me more confident to pursue it further. "

Rutu Dave

Module 7 - Research Methodologies and Critical Appraisal

Aim of the module:

- To help students recognise, understand, interpret and apply methods used in healthcare research and critically appraise the various methodologies.

Synopsis of module content:

- Terminology used in epidemiology and research studies such as prevalence, incidence, sensitivity, specificity, false positive and false negatives.
- Interpreting graphical representation of epidemiological and statistical data such as Kaplan-Meier curves, forest plots and meta-analyses.
- Calculations used in the assessment of research data such as relative risk, absolute risk and number needed to treat. Statistical tests and their applications including t-tests, ANOVA and chi-square.
- Qualitative research methods.
- Fundamentals of evidence-based practice and its application into the clinical setting.
- Principles of health economics, audit and quality improvement/assurance systems.
- Establishing patient registers and the value of disease-specific registers.
- Research into educational principles for both healthcare practitioner and patient.

Learning Outcomes

1. Select and apply different methodological perspectives and tools to answer research questions.
2. Critically analyse and interpret research.

Module 8 - Professional Project

Aim of the module:

- To develop students' ability to critically appraise specific areas of clinical, research and/or organisational practice and develop skills in independent research, study and writing for publication.

Synopsis of module content:

- Literature review and appraisal of the evidence.
- Audit of practice including organisational or clinical.
- Review and implementation of evidence-based practice.
- Qualitative or quantitative research (formal research involving human subjects is not anticipated).
- Case(s)-based and quality of service review with critical appraisal.
- Case report, review of literature and organisational assessment.



Teaching Methods

Our courses are conducted entirely online through our online learning platform. However, you will receive guidance throughout with tutor-stimulated academic discussions, which are based on clinically-rich case scenarios. These usually occur within groups of 10-15 students, allowing you to clearly communicate with both your tutor and fellow students.

You will participate in a combination of group and individual activities, which are recorded in a reflective journal. This innovative teaching method enables you to envisage the translation of your studies into your every day work and practice.

Our dedicated Student Support Team are also available to help with any problems you may face. From navigating our online platform to advising you on deadlines, our team can assist with any questions or challenges you may have along the way.

Study skills week

Once you have secured your place on the course, you will be required to attend our Study Skills week. This will give you the opportunity to participate in workshops on Harvard referencing, scientific and reflective writings, and levels of evidence in preparation for your studies. It is compulsory for you to attend this induction, as it'll provide you with a sturdy introduction to the course.

Orthopaedics Postgraduate Diploma

Entry Requirements

Documents required:

- A copy of your updated CV including your address and date of birth.
- A copy of your undergraduate degree certificate.
- The name and email address of someone who is able to provide a reference. This can be a work colleague, employer or former tutor.
- A detailed personal statement explaining why you would like to undertake the course.

Applicants should submit copies of the following with their application:

Proficiency in the English language is also essential to completing our courses. If English is NOT your first language, we ask for proof of competency during the application process. We are able to accept an IELTS overall score of 6.5 (with a minimum of 6.0 for each band) or an equivalent qualification.

Since our courses are conducted entirely online, they are accessible to both UK and international registered healthcare professionals.

Applicants will typically hold a first degree or equivalent (including international qualifications) in a relevant professional healthcare field, such as a medical or nursing degree. Registered healthcare professionals without these recognised qualifications will be considered on an individual basis and a wide range of prior experience may be taken into account.

In some cases, applicants may be asked to submit a piece of work for assessment in order to confirm that they are able to work comfortably at postgraduate level, and demonstrate the requisite clinical and professional knowledge.





What do our students think?

Since 2010, over 8000 students have progressed their medical career by enrolling in one of our qualifications. We ourselves have learned a lot during this time and continually seek to improve the student learning experience. Here is what some of our previous students have said:

"I found the online learning very interesting. It enabled me to save money and time."

Dr Imad Eddin Rahamtalla, Doctor

"I strongly recommend Diploma MSc to all those busy physicians who are working in remote areas and wish to upgrade their knowledge."

Dr Junaid Zaffar, Diabetologist

"The learning was fun and enjoyable. The course was awesome and it increased my confidence."

Dr Sankar Nath Jha, Assistant Professor

"I found learning with Diploma MSc interesting, it helped to update my academic knowledge."

Dr Prasanth Kinattapurayil, Doctor

"I love that it was flexible and that I could log in at my convenience. I found this course to be very in-depth, informative, challenging and stimulating."

Kerri-Ann Best PGDip, RD



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