Orthopaedic Science

Postgraduate Diploma/MSc

Course Information

Department of Orthopaedic and Trauma Surgery
TORT Centre, Medical Education Institute
College of Medicine, Dentistry and Nursing, University of Dundee
Dear Candidate

Thank you for enquiring about our distance learning course in Orthopaedic Science which is fully accredited by the Royal College of Surgeons of England. The Distance Learning Section of the Department of Orthopaedic and Trauma Surgery at the University of Dundee was founded in 1990 and now provides distance learning programmes to over 150 students worldwide. We hope that you will find this information booklet helpful in deciding whether to pursue this course of study with us.

Application forms for the course are handled by the University Postgraduate Office and are submitted through the UKPASS electronic application system. Please submit your application as soon as possible. You can find the link to UKPASS:

[www.dundee.ac.uk/postgraduate/courses/orthopaedic_science_msc.htm](http://www.dundee.ac.uk/postgraduate/courses/orthopaedic_science_msc.htm)

If you require any further information please contact the Distance Learning Section at the address on the back cover of this booklet. We hope to welcome you to the Department and our University in the near future.

Yours faithfully

Dr Tim Drew  
BEng, MSc, PhD, CEng, MIPEM, ILTM  
Senior Lecturer  
Course Co-Director

Professor Rami Abboud  
BEng, MSc, PhD, ILTM, SMIEEE, Hon FRCS(Eng)  
Course Co-Director  
Head of Department  
Director of Institute of Motion Analysis and Research
Orthopaedic and Trauma Surgery Department

The Department of Orthopaedic and Trauma Surgery, at the University of Dundee, was founded in 1967 when the University of Dundee split from St Andrews’ University and established an independent teaching medical school. The department is based in the Tayside Orthopaedic and Rehabilitation Technology (TORT) Centre. The current staff includes a professor, two clinical senior lecturers, two non-clinical senior lecturers, one clinical and one non-clinical lecturer, one research assistant, four clinical fellows, who are supported by various staff to make your stay with us as beneficial and enjoyable as possible.

The department has a tradition of teaching and research in the field of mechanisms of disease, treatment of disorders of the musculoskeletal system and biomedical and rehabilitation engineering. The founder, Professor Ian Smillie, gained a worldwide reputation in knee surgery and the role of the meniscus. His successor, Professor George Murdoch, founded and developed the Dundee Limb Fitting Centre and the Tayside Rehabilitation Engineering Services, which have acquired an international reputation for the treatment of the amputee and assessment of gait analysis. His successor, Professor David Rowley, sustained the department’s international reputation and innovation in the area of joints replacement complemented by a worldwide service in Clinical Audit Outcomes. The current Professor and Head of Department, Rami J Abboud, is a Biomedical and Rehabilitation Engineer with over 20 years of Biomechanics and Clinical Motion Analysis expertise. He is the founder and current Director of the Institute of Motion Analysis and Research (IMAR) and has developed a number of groundbreaking initiatives originating with the establishment of the Foot Pressure Analysis Clinic and Laboratory in 1993 and subsequently IMAR in 2003. Professor Abboud is also the Course Director of the widely acclaimed Master of Orthopaedic Surgery (MCh Orth) course, Chairman of the College Intercalated BMSc honours degree and Associate Director of the Medical Education Institute.

In 1990 the Distance Learning Section was established and now has over 150 students from all over the world studying its programmes. The Master of Orthopaedic Surgery Course (MCh Orth) and the Intercalated Honours Degree in applied Orthopaedic Technology have been added to complete a comprehensive portfolio of research and taught courses designed to meet the growing demand for education in the rapidly developing field of musculoskeletal medicine, biomechanics and surgery. The Clinical Audit Services coordinate several important clinical research and audit studies, in association with various companies and health boards. The department holds major UK and European grants concerned with motion analysis and clinical audit in a range of different orthopaedic and biomechanical related pathologies □
Orthopaedic and Trauma Surgery Department

The TORT Centre, which was opened on the 1st September 1999, encompasses a combination of surgeons, engineers, orthotists, prosthetists and various specialised professionals to support our clinical/research activities. The TORT Centre houses a diverse number of specialists under one roof who are supported with state of the art high-tech equipment and five laboratories as part of the Institute of Motion Analysis and Research (IMAR). It is going to be our job to pass on our knowledge and fields of expertise to you during your stay with us.

In 2007, the department received from the American Orthopaedic Society for Sports Medicine (AOSSM) the Society’s highest honour, the ‘2007 AOSSM Hall of Fame’, presented posthumously to Professor Ian Smillie for his significant contributions to the specialty of Sports Medicine.

In 2008, to reflect the multi-disciplinary aspect of the research carried out at the Orthopaedic and Trauma Surgery Department, the respective staff were returned in the Research Assessment Exercise (RAE 2008) into Unit of Assessment 25 (General Engineering - Biomedical Engineering) and Unit of Assessment 8 (Primary Care and Other Community-based Clinical Subjects) where 90% and 85% of our quality research profile was deemed of international class respectively.

In 2012, Professor Rami J. Abboud, was elected an Honorary Fellow of the Royal College of Surgeons of England. Honorary Fellowship is given to a very limited number of individuals of outstanding academic merit, or other outstanding contributions to the profession. Those who receive this rare accolade are usually world recognised in that particular speciality. The number of living not-medically qualified Honorary Fellows at any one time shall not exceed 30. This prestigious accolade that has been bestowed upon Professor Abboud by the College further cements our reputation as one of the leading institutes for teaching, research and training in Orthopaedic and Trauma Surgery and Biomechanics.

In 2013 the MCh (Orth) Dundee, course was granted full accreditation by the Royal College of Surgeons of England. This accreditation is extremely important and comes as the department is celebrating the 20th anniversary of the course. This is the only face-to-face course accredited by the College outside of England.
Science and technology have always been central to the treatment of patients in orthopaedics and rehabilitation, and the use of technology has never been greater than it is at present. Today you can choose from a large and ever increasing variety of devices. For instance, twenty-five years ago there was only one type of artificial hip and today there are more than forty. This rapid development has considerable implications for all those working in the fields of orthopaedics and rehabilitation.

This programme aims to provide an understanding of the principles involved in the development and use of orthopaedic and rehabilitation technology and its underlying science. You can apply these principles now in your working environment, and in the future as new devices and techniques are introduced into your work-place. You may even find that you can make a contribution to the development, implementation and evaluation of new technology.

The programme consists of two courses:

- Postgraduate Diploma in Orthopaedic Science
- MSc in Orthopaedic Science

The programme has been designed and written by experts from centres in Dundee and includes up-to-date material reflecting current knowledge and understanding. The Diploma course consists of five groups of modules and the MSc course comprises these same five module groups plus a project. The courses are delivered by distance learning techniques that suit the needs of the working professional.
Orthopaedics, Biomechanics and Rehabilitation Science and Technology in Dundee

The University of Dundee is one of the principal training institutions of orthopaedics, biomechanics and rehabilitation technology in the UK. The University Department of Orthopaedic and Trauma Surgery, in addition to its clinical role, is a centre for teaching and research in orthopaedics, biomechanics and rehabilitation. The department is involved in undergraduate medical education and provides a masters degree course in orthopaedic surgery. The department has expanded rapidly since the 1990s and now boasts a number of specialist sub-units:

• The **Distance Learning Section** delivers programmes in Orthopaedic and Rehabilitation Technology (Dip, MSc), Motion Analysis (PG Cert/Dip, MSc), Clinical Statistics, Orthopaedic Medical Technology, Plaster Technology and Clinical Audit and Research. It has been one of the pioneers of distance learning within the University and now has over 150 students worldwide.

• The department’s **Institute of Motion Analysis and Research** (IMAR) was established by Professor Abboud in 2003 by combining the Foot Pressure Analysis Laboratory, the Materials Testing Laboratory, the Disability Research and Assessment Laboratory and the Dundee Gait Laboratory. A new laboratory dedicated to Sports Biomechanics was completed in January 2007 to augment and support the current facilities of IMAR. IMAR’s main goal is to promote excellence in teaching and research and to provide a comprehensive clinical service in the field of motion analysis.

• The **Clinical Audit and Research Unit** is involved in the evaluation of joint replacement surgery through outcome studies. This unit conducts outcome studies throughout the country and Europe in order to independently assess the results of joint replacement surgery.

The academic department is closely linked with the Orthopaedic Directorate of the NHS Tayside, which provides orthopaedic, wheelchair and seating, orthotic and prosthetic specialist services to the City of Dundee and its surrounding areas. Tayside Rehabilitation Engineering Services (TRES) is also part of the Directorate. TRES provide a clinical service in addition to an active programme of research and development, evaluation and teaching.
Distance Learning

Studying by distance learning means that you learn at a distance from your tutor and your fellow students. We aim to ensure that this distance is only physical, and encourage contact between you and your tutor, and other students. The distance learning mode of study therefore allows you to learn at your own pace, using specially designed learning materials and methods which are easily integrated into your daily routine. Our distance learning courses are particularly suitable for healthcare professionals and others who are unable to take time off work for full-time study.

What are the advantages of the distance learning approach?

- You start your study at any time
- You study at a pace that suits you
- You can set your own deadlines
- You take responsibility for directing your own learning
- You study where it suits you
- You study when it is convenient for you
- You can study without leaving your employment
- You can choose when to contact your tutor if you need support

“*It was a great learning experience. Coming here, my overall personality has changed. I have learnt the right way to write a thesis and also got to know the recent advancements in field of Orthopaedic surgery*”

*International Student Barometer, 2009*
Learning Materials and Tutor Support

Learning Materials
For each module, you receive learning materials consisting of a module guide and one or more study guides. The module guide provides information regarding the structure, the recommended reference materials and the tutor support system. Most modules consist of several individual units, each unit dealing with a different aspect of the module. For every unit there is a study guide which explains the objectives of the unit (what you will have learned by the end of the unit) and then leads you through the learning material, section by section, using text, illustrations, activities, exercises and references to the recommended reference materials. Some additional web-based materials may be available on the University’s Virtual Learning Environment, which you will be able to access once you have completed the university matriculation process. You monitor your own progress through the unit by completing self-assessment questions, which are placed at regular intervals throughout the text, and checking your answers against those provided in the study guide. At the end of each study guide there is a short exercise, which you need to complete and return to your tutor for marking.

Tutor Support
When you need to discuss any aspects of your study, you may contact your tutor for support. Your tutor is available for direct contact by telephone and an answering service is available after office hours. You may also contact your tutor by email, letter and fax with email being the preferred option of all tutors. A video web conferencing service for communication with tutors can also be arranged on request.
Programme Structure and SCFQ Credit Points

Programme Structure
The programme consists of two courses, the Postgraduate Diploma in Orthopaedic Science and the MSc in Orthopaedic Science. For each course there are five groups of distance learning modules. In addition, the MSc course includes a project. The courses must be completed within a period of two to five years from the date you commence your studies.

Credit Points
The University has approved the award of SCQF level 11 (Postgraduate) credit points for the programme. The accumulation of a minimum of 120 credit points is equivalent to a Postgraduate Diploma and a minimum of 180 is equivalent to a Masters.

To be awarded the credit points for a module group you must successfully complete both the assignment and the examination. This means that you can study the module groups individually, if you do not wish to undertake the whole course, and will be awarded a Certificate of Performance by the University. You may transfer your credit points to another institution, subject to its credit rating procedures.
Programme Structure

**Introductory Topics Modules**
- Module 1 - Rigid Body Mechanics
- Module 2 - Structural Mechanics

**Biomechanics Modules**
- Module 3 - Skeletal Mechanics
- Module 4 - Tissue Mechanics
- Module 5 - Biomechanical Measurement Systems

**Rehabilitation Technology Modules**
- Module 6 - Prosthetics
- Module 7 - Orthotics
- Module 8 - Mobility Aids

**Orthopaedic Medical Technology Modules**
- Module 9 - Implant Mechanics and Materials
- Module 10 - Hip Arthroplasty
- Module 11 - Knee Arthroplasty
- Module 12 - Ankle and Foot Arthroplasty
- Module 13 - Upper Limb Arthroplasty
- Module 14 - Bone Fixation

**Statistics Modules**
- Module 15 - Descriptive Statistics
- Module 16 - Statistical Inference
- Module 17 - Non-Parametric Statistical Inference

**Project Module (MSc only)**
- Approved Research Project
- VIVA Examination

**Commence Study**

**Certificate**

**MSc Degree**

**Diploma**
This module group contains two modules. The aim of these modules is to ensure that students achieve a level of competence in their non-specialist subjects prior to studying the other modules in the course.

**Rigid Body Mechanics**
This module introduces you to rigid body mechanics. It begins with the basic mathematics needed for the rest of the course and introduces the mechanics of motion and forces. The concepts introduced are illustrated with examples from everyday life and, where appropriate, worked examples.

**Structural Mechanics**
This module covers the mechanics and properties of materials and structures. This includes the way that materials and structures behave when loaded and how and why structures fracture. Friction, lubrication and wear, which are all important in devices containing moving parts, are also covered.
2. Biomechanics  30 SCQF credit points (Level 11)

This module group contains three modules. The aim is to introduce you to the basic principles of biomechanics and measurement, which are required for a complete understanding of the assessment, prescription and design of orthopaedic and rehabilitation devices.

Skeletal Mechanics
This module covers the skeletal mechanics of the major joints of the upper and lower limbs and spine. The structure and function of each joint is described, including their stability, range of motion and typical joint loadings during various activities of daily living.

Tissue Mechanics
This module introduces and examines the mechanics of the principal skeletal tissues; bone, articular cartilage, tendons and ligaments, and the skin. The way in which the tissues are loaded is described along with how they are designed to withstand such loads.

Biomechanical Measurement Systems
This module covers the use of the biomechanical measurement systems used in orthopaedics and rehabilitation to identify and quantify disorders. The systems covered include, amongst others, those used for gait analysis, foot pressure measurement, muscle force measurement and electromyography.
This module group contains three modules. The aim of these modules is to give you an understanding of the principles underpinning the design and the use of orthotic and prosthetic devices, wheelchairs, special seating systems and ambulation aids.

**Prosthetics**
This module covers the principles involved in the design, fabrication and use of upper and lower limb prostheses. It also includes an overview of the most commonly employed prosthetic devices, amputation surgery, rehabilitation of the amputee and the assessment, selection and prescription of prostheses.

**Orthotics**
This module covers the principles involved in the design, fabrication and use of upper limb, lower limb and spinal orthoses. It includes an overview of the most commonly employed orthotic devices and the methods used for assessment, selection and prescription.

**Mobility Aids**
This module covers the principles involved in the design, fabrication and use of wheelchairs, special seating and body support systems and other mobility aids used for ambulation. It includes an overview of the most commonly prescribed devices and the methods used for patient assessment.
4. Orthopaedic Technology 30 SCQF credit points (Level 11)

This module group contains six modules. The aim of these modules is to give you an understanding of the principles underpinning the design and use of orthopaedic devices, including fracture fixation and deformity correction devices and joint replacements.

Implant Mechanics and Materials
This module covers the fundamental mechanical principles that underpin orthopaedic technology and introduces concepts that will be expanded upon in further modules. It includes implant design factors, load support mechanisms, interface loads and stresses, fixation options, biomaterials and biocompatibility and implant materials.

Hip Arthroplasty
This module covers, in detail, the principles involved in the design of hip joint replacements. It includes bone cement and bonding methods, stem load transfer mechanisms, joint surface and acetabular component design.

Knee Arthroplasty
This module covers the principles involved in the design of knee joint replacements. It includes surface shape and motion constraint factors, load transfer considerations, prosthesis design features, patellar resurfacing and meniscal bearings.

Ankle and Foot Arthroplasty
This module covers the principles involved in the design of ankle and foot joint replacements. It includes biomechanical and replacement design considerations.

Upper Limb Arthroplasty
This module covers the principles involved in the design of upper limb joint replacements. It covers general upper limb arthroplasty criteria, and shoulder, elbow, wrist, metacarpophalangeal and interphalangeal joint arthroplasty, with an emphasis on replacement arthroplasty.

Bone Fixation
This module covers the scientific principles underpinning the design and use of the devices used in the fixation of fractures and deformities. It covers requirements for and principles of fracture fixation, design and use of screws, plates, pins and nails, internal and external fixation techniques, requirements and devices for spinal deformity correction.
5. Statistics 30 SCQF credit points (Level 11)

This module group contains three modules.

**Descriptive Statistics**
This module is designed to equip the student to:

- Be aware of how the field of statistics supports research
- Determine types of variable
- Understand the importance of examining data before beginning a formal analysis
- Organise data effectively and make simple observations about it

**Statistical Inference**
This module is designed to equip the student to:

- Be aware of the two approaches to inference and understand the common theoretical principles that underpin them
- Identify appropriate null and alternative hypotheses for a given research question
- Identify an appropriate test statistic and decision rule
- Understand the concept and limitations of statistical significance

**Non-Parametric Statistical Inference**
This module is designed to equip the student to:

- Be familiar with a range of non-parametric methods
- Understand the strengths and limitations of non-parametric methods
- Be aware of assumptions on which parametric and non-parametric methods are based and how to test them
- Apply and intercept correlation correctly □
6. Project (MSc only)  60 SCQF credit points (Level 11)

The project module is for MSc students only. The project will be in a relevant area of orthopaedics, biomechanics and rehabilitation. The project must be undertaken at a suitable centre approved by the University of Dundee.

You must find a suitably equipped location for your project, and arrange for supervision. You will be assigned a project mentor in Dundee who will act as a second, distant supervisor. You are responsible for designing your own project and will be required to submit, for approval, details of your project, the centre and its facilities and also about your supervisor and the supervision you will receive. If these are not approved, you will be unable to proceed with the course.
Further Information

Assessment
Assessment for the diploma award is by a combination of coursework (assignments) and written examination.

Coursework
At the end of each unit you submit an assignment to your tutor for assessment, along with an assignment card containing a signed declaration that the work submitted is your own. A copy of the assignment is returned to you with your marks and the original is retained by the University. The assignments form the coursework element of the final assessment for both courses.

Examinations
Written examinations are held during September each year in Dundee. Under special circumstances exams can also be sat by arrangement at approved examination centres (for example, at British Council Offices), outside of, and in the UK. If you sit an examination outside Dundee you will be responsible for paying any costs the examination centre may charge (e.g. room and invigilating costs).

You must complete all the modules in a module group, including the assignment, before you can sit the exam(s) for that group. You may choose to sit all the exams at one time or spread them throughout your course.

Dissertation (MSc only)
The MSc project is assessed by dissertation and viva (oral examination). Vivas are held in Dundee only.
Frequently Asked Questions

Q Will I need to buy textbooks?
A The Study Guides supplied for each module contain all the information you require, but references and further reading for each module are recommended. You can use these to reinforce what you have learned from the Study Guide, to clarify points in the module and for further reading.

Q How many modules can I study at once?
A You need to complete one module before you can begin the next.

Q Who will be my tutor?
A You will be assigned a tutor for each module. Your tutor will be a University lecturer, a practitioner or other expert with experience in the module topic. Details of your tutor’s name and contact details are given in the Module Guide for each module.

Q When does the course commence?
A The beauty of distance learning is that you choose your own starting date. Once you have accepted a place on the course, you return your payment and matriculation papers stating the date you wish to begin the course.

Q How do I register for the course?
A To register for the course, you must first complete and return the application form for the course. This will be processed and, if your application is approved by the University, you will be offered a place on the course. Should you accept this place, you will be forwarded for matriculation and will be sent an invoice for payment of fees. As soon as we receive payment of your course fees, you may then begin the course.
Minimum Entry Requirements

Entry to the distance learning programme in Orthopaedic Science is subject to the following requirements:

Certificate/Diploma
To be eligible to apply to study this course applicants must have attained MB ChB or equivalent plus MRCS or equivalent plus Specialist Registrar level or equivalent in orthopaedic surgery.

MSc
Successful completion of the Diploma in Orthopaedic Science course at Dundee University within three years. Your project must be approved by the University before you may register for the MSc course.

Language
We require all overseas students to provide certification of their English language qualifications. For current information on all English language qualifications accepted by the University of Dundee, please consult the following webpage:

www.dundee.ac.uk/admissions/international/english_language_requirements.htm
Course Fees

Fees are set each year on 1st September. Course fees for 2015-16 are as follows:

| Course Fees (distance learning)       | Part-time | |
|---------------------------------------|-----------|
| Module Group 1 and 2                  | £2,825    |
| Module Group 3 and 4 and 5            | £2,825    |
| Diploma Course (total)                | £5,650    |
| MSc Project                           | £3,000    |
| MSc Course (total)                    | £8,650    |
| Course Fees (in-house)                | Full-time |
| MSc Course (total)                    | £12,000   |

The Diploma fee may be paid either in full at the start of the Diploma course, or by instalment prior to starting each module group. Each module group is charged at one half of the diploma course fee at the time that the payment is due. The fee for the MSc project must be paid before the start of the project, once an offer of a place has been accepted. Once your fees have been paid, your first module group will be forwarded to you. If you decide that you do not wish to proceed at this stage, and you return the module group in good condition within ten working days from its date of postage, your fee will be refunded (after deduction of 10% towards administrative costs).

Checklist
When applying for the Orthopaedic Science Course please ensure that the following have been forwarded to the Distance Learning Section:

- A fully completed application form
- A current CV
- Names and contact details of two referees
- Copies of relevant qualification certificates
- Two passport photographs
Regulations

Diploma in Orthopaedic Science
1. Before entering a course of study leading to the Diploma in Orthopaedic Science a candidate must hold a degree or professional qualification, acceptable to the Head of the Department, and satisfy the Head of Department of his or her suitability to undertake the course.

2. A candidate must undertake a course of instruction approved by the College Board normally for not less than two years and not more than five years. The period of study may be extended by the College Board of Medicine and Dentistry on sufficient cause being shown.

3. A candidate will not normally be required to attend the University of Dundee during his/her period of study, except as required by the Head of the Department, but will be required to matriculate as a student of the University and to pay such fees as may be prescribed by the University Court.

4. A candidate will be required to satisfy the Head of Department that any work submitted for the Diploma is the candidate’s own work.

5. Before being awarded the Diploma a candidate must have attained a satisfactory standard in all the exercises, assignments and written examinations given as part of his/her course.

6. On the recommendation of the examiners, the Diploma may be awarded “With Distinction”

MSc in Orthopaedic Science
1. The course of study leading to the MSc in Orthopaedic Science is governed by the regulations for the Diploma, listed above, and the regulations for the degree of MSc, copies of which are available on request.

2. On recommendation of the examiners, the MSc may be awarded “With Distinction”
About the University of Dundee

From its very beginning the University of Dundee was both inspirational and down to earth; traits that remain its fundamental watermark today. The Nobel Laureate, Seamus Heaney, described the University as an institution ‘with its Head in the clouds and its feet firmly on the ground’. Perhaps the most apt description of the University’s ethos comes from one of its founding father’s, Patrick Geddes, who advised that ‘By creating we think, by living we learn’.

The University’s origins date back over 100 years to the founding of University College Dundee in 1881. The driving force was a rising demand for the extension of liberal education and the advancement of technical instruction. Today the University of Dundee has a strong emphasis on the professions, educating more than 70% of its students into the non-business professions ~ medicine, dentistry, nursing, law and architecture ~ more than any other Scottish university. It also has thriving arts and science colleges.

With women accounting for over 60% of our student population, the University has long since fulfilled and surpassed the earlier vision of Mary Ann Baxter ‘promoting the education of persons of both sexes in the study of science, literature and the fine arts’. That quote translates today to excellence in teaching and research and contributing to the social, economic and cultural life of Scotland.
About the University of Dundee

The high quality of teaching and research at the University, together with the satisfaction ratings of our students, have contributed to a series of high rankings and accolades:

- The University ranked 140 among the world's top 200 universities in the Times Higher Education 2010-11 World University Rankings
- One of the world’s top seven ‘intelligent communities’ ~ US think-tank Intelligent Community Forum, 2010
- Dundee has been chosen as the site for the Victoria and Albert (V&A) museum development outside London, 2010
- Ranked 1st in the UK ‘for good teachers and learning support’ ~ International Student Barometer, 2009
- Second in Scotland for all-round student experience ~ Times Higher Education Student Experience Survey, January 2009
- Best scientific workplace in Europe ~ Poll of International Scientists, 2008 and 2009
- Ranked 1st in the UK for its Medical Course ~ Guardian Educational league table, 2008 and 2009
- Ranked 1st in the UK for Dentistry ~ Independent and Guardian, 2008
- One of the UK’s top 20 universities ~ The Guardian, 2008
- One of the UK’s top 20 for research ~ Research Fortnight, 2008
- Shortlisted as University of the Year ~ Times Higher Education Awards, 2008
- Ranked 3rd in the UK for scientific research impact ~ The Guardian and Thomson Scientific Index, 2008
- One of the world’s top 250 universities and the fastest rising Scottish university ~ Times Higher Education Awards, 2007
- Since the completion of the £21 million Sir James Black Centre for Interdisciplinary Research, the University has a larger medical research complex than the National Institute of Medical Research in London
- Dundee is among the UK’s highest generators of per capita research income, much of it focused on medical and biomedical research
Contact Information

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The University of Dundee is a Scottish Registered Charity, No. SC015096

The Department runs the following courses:

Postgraduate Taught Courses
Master of Orthopaedic Surgery (MCh Orth) - **RCS England Accredited**
Diploma/Master in Orthopaedic Science - **RCS England Accredited**
Diploma/MSc in Motion Analysis
Diploma/Master in Orthopaedic and Rehabilitation Technology
Diploma/MSc in Sports and Biomechanical Medicine
Postgraduate Certificate in Clinical Audit and Research for Healthcare Professionals

Postgraduate Research Courses
MSc/MPhil/PhD in the area of Motion Analysis
MSc/MPhil/PhD in Musculoskeletal Biomechanics
MSc/MPhil/PhD in Biomedical Engineering
Doctor of Medicine (MD)

Undergraduate Courses
BMSc in Applied Orthopaedic Technology

Continuing Professional Development Certificate Courses
Clinical Statistics
Orthopaedic Medical Technology
Plaster Technology