Postgraduate Diploma/MSc
Orthopaedic and Rehabilitation Technology
Course Information
Department of Orthopaedic and Trauma Surgery
TORT Centre, Medical Education Institute
College of Medicine, Dentistry and Nursing, University of Dundee
Thank you for enquiring about our distance learning course in Orthopaedic and Rehabilitation Technology. 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 UKPASS. You can find links to UKPASS electronic application system on our course web page at:

www.dundee.ac.uk/postgraduate/courses/orthopaedic_rehabilitation_technology_msc.htm

If you require any further information please contact the Distance Learning Section at the address on the reverse of this booklet.

Yours faithfully

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

Professor Rami Abboud  
BEng, MSc, PhD, ILTM, SMIEEE, Hon FRCS(Eng)  
Head of Department  
Director of Institute of Motion Analysis and Research
Technology has 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 sixty. This rapid development has considerable implications for all those working in the fields of orthopaedics and rehabilitation.

This programme aims to provide you with an understanding of the principles involved in the development and the use of orthopaedic and rehabilitation technology. 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 Technology (DipORT)
- MSc in Orthopaedic and Rehabilitation Technology

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 comprises four groups of modules and the MSc course comprises the same four module groups and a project. The courses are delivered by distance learning techniques, to suit the needs of today’s working professional.
ORT 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

“Over the years that I have been doing this postgraduate course I always received excellent support from both the administration and academic staff, which are ready to go out of their way to help you”

Dr Kieran Chircop ~ ORT student
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. You may contact your tutor by email, telephone, letter or fax, with email being the preferred method of communication. A telephone answering service is available after office hours.
Programme Structure and SCFQ Credit Points

Programme Structure
The programme consists of two courses, the Postgraduate Diploma in Orthopaedic and Rehabilitation Technology and the MSc in Orthopaedic and Rehabilitation Technology. For each course there are four 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 start. For a graphical representation please see the table on page 7.

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 degree. To be awarded the credit points for a module group you must successfully complete 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.
<table>
<thead>
<tr>
<th>GROUP</th>
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<th>CREDITS</th>
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<td><strong>MODULE GROUP ONE</strong></td>
<td>INTRODUCTORY TOPICS MODULE</td>
<td>Module 1 - Skeletal Anatomy and Physiology</td>
<td>30 SCQF Credits</td>
<td>Certificate of Performance</td>
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<td></td>
<td>Modules 1 and 2 or Modules</td>
<td>Module 2 - Orthopaedic and Disability Medicine</td>
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<td>3 and 4 to be taken dependent on experience Module 3 - Engineering Mechanics</td>
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<td>Module 4 - Properties and Mechanics of Materials Module 5 - Skeletal Mechanics</td>
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<td>Postgraduate DIPLOMA</td>
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<td>Module 12 - Hip Arthroplasty</td>
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<td>Module 14 - Ankle and Foot Arthroplasty</td>
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<td>Module 15 - Upper Limb Arthroplasty</td>
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<td>Module 16 - Bone Fixation</td>
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<td><strong>MODULE GROUP FIVE</strong></td>
<td>PROJECT MODULE (MSc ONLY)</td>
<td>Approved Research Project</td>
<td>60 SCQF Credits</td>
<td>Postgraduate DEGREE</td>
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<td>Viva Examination</td>
<td>Level 11</td>
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1. Introductory Topics 30 SCQF credit points (Level 11)

This module group contains four modules of which you will be required to study at least two. The aim of these modules is to ensure that students from different backgrounds achieve a level of competence in their non-specialist subjects prior to studying the other modules in the course.

**Skeletal Anatomy and Physiology**
The aim of this module is to develop your knowledge of basic regional and systematic anatomy and physiology with an emphasis on the musculoskeletal systems.

**Orthopaedic and Disability Medicine**
This module aims to provide you with a background knowledge and understanding of the common orthopaedic conditions and disabilities. It covers the cause and management of common joint conditions, backache and neckache, childhood and adult disorders, and medicine related to disability.

**Engineering Mechanics**
This module introduces you to engineering mechanics. It begins with understanding 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.

**Properties and Mechanics of Materials**
This module covers the mechanics and properties of materials. 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 with moving parts, are also covered.
2. Biomechanics  30 SCQF credit points (Level 11)

This module group contains three modules. You will be required to study all three of these 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 introduces skeletal mechanics, covering the major joints of the upper and lower limbs and the 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.
3. Rehabilitation Technology 30 SCQF credit points (Level 11)

This module group contains three modules. You will be required to study all three of these 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 and the 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.
This module group contains six modules. You will be required to study all six of these 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 on in the other modules of the module group. 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 considerations 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 the requirements for and the 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.
The project module is for MSc students only. The project will be in a relevant area of orthopaedics 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 are required to 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.

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

Checklist
When applying for the Orthopaedic and Rehabilitation 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
Examinations

Written examinations are held during September each year in Dundee. If you are unable to attend examinations in Dundee exams can also be sat by special arrangement at approved examination centres (for example, at British Council Offices) outside, and in the United Kingdom. If you sit an examination outside Dundee you will be responsible for paying any costs the examination centre may charge.

You will sit either four or five examination papers, depending on which introductory modules you have studied. 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.
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 start the next.

Q  Which introductory modules will I study?
A  This depends on your qualifications and experience. If you have a medical or life science background you will be required to study the modules in Engineering Mechanics and Properties and Mechanics of Materials. If you have an engineering or physical science background, you will be required to study the modules in Skeletal Anatomy and Physiology and Orthopaedic Medicine. Most students study only two modules, but you may be asked to study three or even four modules in the Introductory Topics module group.

Q  Who will be my tutor?
A  You will be assigned a tutor for each module. Your tutor will be a University lecturer or 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 start?
A  The beauty of distance learning is that you choose your own starting date.

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 the place, you will be required to pay the course fees then you will be forwarded for matriculation. 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 is subject to the following requirements:

**Certificate/Diploma**
A degree in science, engineering, medicine, physiotherapy, occupational therapy, orthotics, prosthetics, nursing or other related field. Or a medically related professional qualification of degree standard, with at least two years experience of working in the field of orthopaedics and/or rehabilitation

**MSc**
Successful completion of the Diploma in Orthopaedic and Rehabilitation Technology course at Dundee University within 3 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](http://www.dundee.ac.uk/admissions/international/english_language_requirements.htm)
Course Fees

The fees are set each year on 1st September. Course fees for 2014/2015 are as follows:

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<tr>
<th>Course</th>
<th>Fees for 2014-2015</th>
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<tbody>
<tr>
<td>MSc Orthopaedic &amp; Rehabilitation Technology (distance learning)</td>
<td>£8,650</td>
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<tr>
<td>PG Dip Orthopaedic &amp; Rehabilitation Technology (distance learning)</td>
<td>£5,650</td>
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<tr>
<td>Module Group 1 and 2</td>
<td>£2825</td>
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<tr>
<td>Module Group 3 and 4</td>
<td>£2,825</td>
</tr>
<tr>
<td>MSc Project (distance learning)</td>
<td>£3,000</td>
</tr>
<tr>
<td>MSc Orthopaedic &amp; Rehabilitation Technology (in-house)</td>
<td>£10,000</td>
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</table>

**Distance Learning:** 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 (for full details please contact the Distance Learning Section). 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 administrative costs).

**In-house:** the fees should be paid in full upon matriculation.

Please note that candidates can opt to do their modules by distance learning and then attend Dundee for their project. For comprehensive details please enquire □
Course Regulations

Diploma in Orthopaedic and Rehabilitation Technology (DipORT)

1. Before entering a course of study leading to the Diploma in Orthopaedic and Rehabilitation Technology a candidate must hold a degree or professional qualification, acceptable to the Head of the Division or Course Director, and satisfy them of his/her suitability to undertake the course.

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

3. A part-time distance learning 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 Division or Course Director, 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 Division or Course Director 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 minimum of 50% in the module overall assessment (assignments and written examinations).

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

Master of Science (MSc) in Orthopaedic and Rehabilitation Technology

The course of study leading to the MSc in Orthopaedic and Rehabilitation Technology 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
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 fathers, 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

Distance Learning Section
Department of Orthopaedic and Trauma Surgery
TORT Centre
Ninewells Hospital and Medical School
University of Dundee, DD1 9SY
Scotland, United Kingdom

Telephone  +44 (0)1382 383500
Email  dls@dundee.ac.uk
www.orthopaedics.dundee.ac.uk
www.facebook.com/ortho.dundee

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