

Programme title: MSc Medical Imaging: International

Academic Year:	2017/18
Degree Awarding Body:	University of Bradford
Partner(s), delivery organisation or support provider (if appropriate):	
Final and interim award(s):	[Framework for Higher Education Qualifications (FHEQ) level 7] MSc Medical Imaging: International
Programme accredited by (if appropriate):	College of Radiographers
Programme duration:	Full Time: 12 months
QAA Subject benchmark statement(s):	N/A
Date of Senate Approval:	
Date last confirmed and/or minor modification approved by Faculty Board	July 2016

Introduction

The full time MSc Medical Imaging: International programme provides a coherent pathway of study relevant to contemporary medical imaging practice. It is designed to be of particular interest to international students, with a qualification in diagnostic radiography or medical technology, currently working in the area of medical imaging and who wish to enhance their knowledge so as to contribute to improve medical imaging services. It is designed to support healthcare professionals develop their knowledge, understanding and theoretical skills related to medical imaging required for a professional who aspires to work at an advanced level of practice. Education within the clinical environment is not a component of the course and on successful completion students will not be eligible to apply for Health and Care Professions Council (HCPC) registration.

The programme is delivered by the radiography academic team within the School of Allied Health professions and Sport in partnership with clinical and scientific experts working within specialised areas of medical imaging to ensure the curriculum remains appropriately diverse and clinically relevant, and alongside the part time MSc Medical Imaging programme for UK students. This full-time MSc pathway is a modular programme encompassing a range of core academic modules related to medical imaging, and research. Upon successful completion of the MSc Medical Imaging: International, students will have the knowledge and understanding necessary to work at an advanced level of practice within their chosen medical imaging discipline and apply research informed learning to international health communities to inform health service practice and delivery.

The role of higher education within the UK is not only to develop the learning and critical thinking skills of students but to provide students such as yourself with the opportunity to study for an award which will support your current and future career prospects within a dynamic and evolving healthcare environment.

The MSc Medical Imaging: International programme is aligned with the Faculty of Health Studies multidisciplinary Specialist Skills and Post Registration Development Framework for Flexible Learning (referred to as the SSPRD Framework). The SSPRD Framework provides the opportunity for you to study alongside students from a range of healthcare disciplines to provide an enriched learning experience, particularly in the Faculty modules 'preparing for a systematic review' and 'pursuing a systematic review'.

The MSc Medical Imaging: International and the Faculty of Health Studies' SSPRD Framework share similar programme aims. There are several aims for the programme and these are contextualised within the aims of the modules and the route of study that you choose to take. When you study a Faculty SSPRD Framework module, alongside students from a range of different professions/employment areas, it is the application of the Aims and Learning Outcomes to your own subject that maintains the focus on your area of interest within the MSc Medical Imaging: International.

Programme Aims

The programme is intended to:

Post Graduate Certificate: Aims 1-8 are essential

1. Provide a flexible educational framework that is vocationally relevant, which meets the professional development needs of the student, as well as the organisational needs of employers.
2. Stimulate students to become autonomous self-directed learners who are motivated to sustain and advance their own continuous professional learning with a confidence to support the professional development of colleagues and the work of their organisations.
3. Develop the skills, knowledge, critical understanding and awareness of the depth and breadth of knowledge applicable to their own field of medical imaging practice.
4. Further develop the student's cognitive and practical skills to undertake data synthesis, complex problem solving, the articulation of competing perspectives and competence in their field of medical imaging practice.
5. Provide opportunities for multi-professional teaching and learning to share the knowledge, skills and experience common to a range of different health and social care disciplines.
6. Develop critically reflective, competent practitioners, managers and leaders who will inform and shape or change inclusive, fair and ethically sensitive medical imaging service provision.
7. Provide a framework within which the curriculum, where required, meets the regulatory needs of professional bodies such as the HCPC.
8. Develop the skills required for life-long learning and professional development.
Post Graduate Diploma : Aims 1-9 are essential
9. Develop critical perspectives on research and knowledge development in medical imaging practice and management.
Masters Degree : Aims 1-10 are essential
10. Develop an understanding of the theoretical constructs underpinning research or project management which will inform the undertaking an ethical piece of research or a management project and the ability to demonstrate how the findings can influence imaging practice and policy.

Programme Learning Outcomes

To be eligible for the award of Postgraduate Certificate at FHEQ level 7, students will be able to:

- LO1 Develop a detailed knowledge and understanding of the literature that relates to your specialist field of imaging practice.
- LO2 Critically analyse research and synthesise the research evidence that informs the development of policy and service delivery in your specialist field of imaging practice or area of employment.
- LO3 Master, evaluate and critically apply theoretical concepts for the management of complex issues within your field of medical imaging practice.

- LO4 Reflect upon and demonstrate knowledge of values, ethical thinking, equality awareness, inclusive practice and demonstrate mastery within your specialist field or practice in medical imaging.
- LO5 Develop and demonstrate the ability to articulate sound arguments using a variety of formats including written and oral communication.
- LO6 Demonstrate critically reflective practice and complex problem solving to inform, shape or change your practice or that of others within medical imaging.
- LO7 Demonstrate the ability to become an autonomous learner through independent study and critical reflection on your own continuing development needs.
- LO8 Demonstrate the ability to use IT skills to gather, synthesise and appropriately apply information.

Additionally, to be eligible for the award of Postgraduate Diploma at FHEQ level 7, students will be able to:

- LO9 Demonstrate a critical awareness and understanding of different theoretical constructs underpinning research and/or change and project management methodologies.

Additionally, to be eligible for the award of Degree of Master at FHEQ level 7, students will be able to:

- LO10 Design, undertake and report on either a systematic review, a piece of empirical research, work based or management project that contributes to or extends the body of knowledge for your specialist field of practice in medical imaging.

Curriculum

The curriculum has been designed to meet the needs of health care professionals aspiring to work at an advanced level of practice within Medical Imaging. The ethos of sustainable development is a fundamental feature of the programme with students encouraged to develop autonomous learning skills and the ability to apply critical thinking to clinical practice in order to contribute to the Department of Health's strategic objectives which seek to: narrow the health gap; prevent illness; and improve health and well-being. The programme also promotes independent learning to provide students with the skills and desire to continue learning beyond the boundaries of the programme and inform practice developments in the future.

To ensure a coherent programme of study that can be completed within 12 months there is a structured diet of modules within the programme: you must choose two of the three optional modules to study in semester 1 alongside the preparation for a systematic review module. There is, also some flexibility within the modules that permits you to tailor your study around your particular background and interest. Progression to the final stage of the Master's award is dependent upon successful completion of the module entitled 'Preparing for a Systematic Review', which is designed to prepare you for the final stage investigation 'Pursuing a Systematic Review'.

Degree of Master

FHEQ Level	Module Title	Type	Credits	Semester (s)	Module Code
7	Computed Tomography	optional	30	1	RAD7007-C
7	Magnetic Resonance Imaging	optional	30	1	RAD7008-C
7	Principles of Reporting	optional	30	1	RAD7001-C
7	Preparing for a Systematic Review	core	30	1	RES7006-C
7	Current Topics in Medical Imaging	core	30	2	RAD7003-C
7	Pursuing a Systematic review	core	60	2	RES7007-E

Students will be eligible for the award of Degree of Master if they have successfully completed at least 180 credits and achieved the award learning outcomes. This award does not confer eligibility to register with the Health and Care Professions Council (HCPC), or other professional statutory regulatory body.

If you do not successfully complete all modules in the MSc Medical Imaging: International, you will be eligible for a postgraduate certificate or diploma, depending on the number of credits you have achieved as explained below. The award title will be the generic title from the SSPRD Framework in Health, Wellbeing and Social care (not the Msc Medical Imaging International award title).

Postgraduate Certificate

Students will be eligible to exit with the award of Postgraduate Certificate if they have successfully completed 60 credits and achieved the award learning outcomes.

Postgraduate Diploma

Students will be eligible to exit with the award of Postgraduate Diploma if they have successfully completed at least 120 credits and achieved the award learning outcomes.

These awards do not confer eligibility to register with the Health and Care Professions Council (HCPC), or other professional statutory regulatory body.

Learning and Teaching Strategy

The teaching approaches that are used across the Faculty of Health Studies are informed by the University core values which are for teaching and learning to be: Reflective, Adaptable, Inclusive, Supportive, Ethical and Sustainable. You may experience these across the modules that you study in order to meet both the aims of the programme and your learning outcomes. Technology is used to enrich learning and simulate the working environment with some tutorials and examinations undertaken in the Picture Archive Communication System (PACS) suite, and the VLE, wiki's and blogs used to facilitate peer and blended learning. Student-centred approaches to learning are a feature of many of the modules and you will be expected to take responsibility for your learning as you develop your academic skills through:

- Lectures: To a group of students where information will be presented and discussed whilst informed by the core values.
- Facilitated seminars and group discussion: Where learning will be through the interpretation and critical application of information and group learning.
- Tutorial: Where small group number of students reflect and discuss issues related to their learning.
- Use of Web based virtual learning environments, such as Blackboard or Ning: To access information and to interact with other students undertaking group work or developing wikis.
- Directed reading: where set reading may be recommended.
- Self Directed learning: Where student are expected to develop their own learning by identifying areas of interest and areas in which knowledge needs to be developed.
- Undertaking a project or a research module which is shaped by your own self directed learning needs and the learning outcomes at MSc level.

The wide range of teaching approaches ensures that students can consolidate learning through a range of activities. In particular, a feature of this programme is the promotion of small group learning and discussion of clinically relevant cases and scenarios to promote problem solving skills and peer education, important skills necessary for working at an advanced level of practice. As you will be studying alongside students on the MSc Medical Imaging programme, UK practices, policies and challenges will form part of the peer discussion and learning. Outside of formal teaching sessions, students may access course materials and engage in online discussions and learning activities through the university's Virtual Learning Environment. The development of personal transferable skills is embedded within the programme teaching and learning approaches to enable students to develop their knowledge, understanding and skills in order to fulfil their intellectual and personal potential. Some of these teaching and assessment strategies may change over time and through the ongoing development of the courses.

Following enrolment you will have a personal academic tutor appointed and they will provide you with holistic guidance encompassing academic and personal support throughout your course of study. This will include personal and professional development (PDP) planning and supporting you in the achievement of

learning outcome LO9 & 10 by individual tutorials and guidance in their role as your 'project' supervisor.

All the modules delivered within the MSc Medical Imaging: International involve attendance at the University. The attendance pattern varies between modules but commonly involve week blocks of teaching and weeks of guided and independent activity.

Assessment Strategy

Your learning will be assessed against the learning outcomes and programme aims through the use of a range of different assessment techniques which may include one or more of the following approaches:

- Written essay
- Presentation
- Reflective report
- Computer based examinations
- Research proposal
- Completion of a dissertation
- Journal article or conference poster

The Current Topics in Medical Imaging Module offers a choice of assessment mode, and some of the modules permit flexibility in choice of topic for your assessment to address the learning outcomes and meet your interests.

Some of these teaching and assessment strategies may change over time and through the ongoing development of the courses.

Assessment Regulations

This Programme conforms to the standard University Assessment Regulations which are available at the link below

<http://www.bradford.ac.uk/aqpo/ordinances-and-regulations/>

However, there are two exception(s) to these regulations as listed below:

Waiver from the postgraduate progression regulations 10.1

Students must achieve 40% in each module which make up an award of which all components and elements of assessment are achieved at 40%.

Waiver from the Administrative Regulations Relating to Assessment regulation 8.2 & 8.5

Students are offered reassessment (supplementary assessment as a second attempt) as due course without having to process this through Board of Examiners.

Admission Requirements

The University welcomes applications from all potential students. Consideration of applications will be based on a combination of formal academic qualifications and other relevant experience.

The standard entry requirements for the programme are as follows:

- be in possession of a first degree or an appropriate professional qualification in radiography or related subject, equivalent to the BSc Hons Diagnostic Radiography in UK
- have extensive clinical experience since graduation in computed tomography and magnetic resonance imaging, demonstrating the ability to competently and independently undertake a wide range of examinations in these modalities.
- meet the current visa and entry requirements for study in the UK
- achieve an IELTS score of at least band 6.5 with no subtests less than 5.5

The University of Bradford has computers with internet and word processing facilities available to students across a number of locations. However for postgraduate students it is advisable that you have access to a computer that has a broadband connection and that can browse the internet and has word processing on it, and have computing skills commensurate with the demands of course.

The University of Bradford Academic Skills unit can support students in developing skills needed to support your studies. The Disability Office can provide support to students who have a disability. Dyslexia screening is also available.

Recognition of Prior Learning

If applicants have prior certificated learning or professional experience which may be equivalent to parts of this programme, the University has procedures to evaluate and recognise this learning in order to provide applicants with exemptions from specified modules or parts of the programme.

Minor Modification Schedule

Version Number	Brief description of Modification	Date of Approval (Faculty Board)
2	Updated module codes	July 2016