

Course Information Document: Undergraduate

For students starting in Academic Year 2022/23

1. Course Summary

Names of programme and award title(s)	BSc (Hons) Radiography (Diagnostic Imaging)
Award type	Single Honours
Mode of study	Full-time
Framework of Higher Education Qualification (FHEQ) level of final award	Level 6
Normal length of the programme	3 years
Maximum period of registration	The normal length as specified above plus 3 years
Location of study	Keele Campus
Accreditation (if applicable)	This programme is accredited by the Society and College of Radiographers and approved by the Health and Care Professions Council (HCPC). For further details see the section on Accreditation.
Regulator	Office for Students (OfS)
Tuition Fees	<p>UK students:</p> <p>Fee for 2022/23 is £9,250*</p> <p>International students:</p> <p>Fee for 2022/23 is £24,200**</p>

Please note this document applies to Level 4 (Year 1) students only in 2022/23. Level 5 and 6 students should refer instead to the document labelled '2021/22'.

How this information might change: Please read the important information at <http://www.keele.ac.uk/student-agreement/>. This explains how and why we may need to make changes to the information provided in this document and to help you understand how we will communicate with you if this happens.

* These fees are regulated by Government. We reserve the right to increase fees in subsequent years of study in response to changes in government policy and/or changes to the law. If permitted by such change in policy or law, we may increase your fees by an inflationary amount or such other measure as required by government policy or the law. Please refer to the accompanying Student Terms & Conditions. Further information on fees can be found at <http://www.keele.ac.uk/studentfunding/tuitionfees/>

** We reserve the right to increase fees in subsequent years of study by an inflationary amount. Please refer to the accompanying Student Terms & Conditions for full details. Further information on fees can be found at <http://www.keele.ac.uk/studentfunding/tuitionfees/>

2. What is a Single Honours programme?

The Single Honours programme described in this document allows you to focus exclusively on this subject, Radiography (Diagnostic Imaging).

3. Overview of the Programme

As a student on the BSc (Hons) Radiography (Diagnostic Imaging) programme in the School of Allied Health Professions (SAHP), you will study undergraduate radiography alongside physiotherapy and rehabilitation and exercise science students. SAHP sits within the Faculty of Medicine and Health Sciences and other professional groups represented within faculty include medicine, nursing and midwifery, and pharmacy. This gives you opportunities for inter-professional learning, which is a feature of the programme, in line with government guidelines[1].

Radiography (Diagnostic Imaging) has undergone, and continues to undergo, significant development due to the philosophical and political changes that have occurred in health and social care since the early 1990s. These developments have occurred against a backdrop of rapid and on-going changes in technology, changes in the Ionising Radiation Regulations[2], fundamental changes in healthcare practices and extension of responsibility for diagnostic radiographers[3].

The profession of Radiography, like many other health professions, should be evidence based, with an emphasis on patient care and service delivery, therefore the research element of the programme is consistent with the Society and College of Radiographers (SCoR) Research Strategy[4].

Radiographers, more than at any other time in the history of the profession, are key practitioners in the provision of diagnostic imaging services. In addition to ionising radiation based imaging, they are responsible for the operation of ultrasound, nuclear medicine and MRI facilities, providing health screening, diagnosing and monitoring disease processes and performing interventional procedures carried out under imaging control. The increased role of all allied health professionals in Public Health and Health Promotion means that for radiographers this will be a core part of their future role[5].

The clinical sites used to place students from this programme are already encouraging and supporting increasing numbers of radiography practitioners to provide verbal or written advice and guidance to medical and other healthcare workers regarding the interpretation of the clinical images they produce. The Audit Commission (2002) also found that 'many departments are using radiographers more flexibly to take on new roles and there is scope to extend this further'. The College of Radiographers stated, "as a vision for the profession, by 2010 clinical reporting (at least at initial image interpretation level) by radiographers, at the level of production of a written or verbal comment, should become a core competence". Therefore, the programme has a significant emphasis on initial image interpretation with the intention that all students are able to offer a written comment at their point of qualification, as this is a crucial part of practice and development of the profession.

The BSc (Hons) Radiography (Diagnostic Imaging) programme is intended to develop practitioners who can respond to a diverse and challenging service context in which traditional health and social service and associated professional roles are changing rapidly in response to broader political, social, economic and demographic change. These changes have highlighted a need for locally focused, clinically driven, evidence based, healthcare services which may widen opportunities for radiographers to step into positions of leadership within service. To ensure competence there is an obvious need to support these changes through imaginative and innovative education, such as inter-professional learning.

The opportunity for career progression in healthcare has made it increasingly important to ensure that newly qualified radiographers, and other health and social care professionals, have appropriate supervisory, communication, research and management skills to not only support student radiographers, but also assistant practitioners[6]. Many of these issues are explored within the collaborative elements of the programme but BSc (Hons) Radiography (Diagnostic Imaging) specific modules will address these issues where appropriate. The BSc (Hons) Radiography (Diagnostic Imaging) programme has been developed with specific reference to several additional key external documents including the Health and Care Professions Council Standards for Proficiency for Radiographers (2013), and the QAA Subject Benchmarks Statement - Diagnostic Radiography (2002).

The programme design is consistent with outcomes for autonomous practice and the indicative curriculum for Practitioners set out in Society and College of Radiographers: Education and Career Framework for the Radiography Workforce (2013)[7].

The profession is founded on a strong, evolving evidence base and scope of practice, clinical leadership and patient-centred professionalism. The Keele BSc (Hons) Radiography (Diagnostic Imaging) programme is designed to ensure that its content is current, reflecting contemporary radiography practice in the UK, and sufficiently flexible to accommodate the changing demands of health and social care and the future requirements of the profession, both in the UK and globally. The programme is committed to the development and provision of high quality multi- and inter-professional learning. The School of Allied Health Professions uses a range of high quality clinical bases to deliver the clinical component of their programmes.

The regular monitoring and evaluation of practice placements is the collaborative responsibility of education providers and placement providers, and are systematic and measurable as per SCoR guidelines.

The BSc (Hons) Radiography (Diagnostic Imaging) programme at Keele will enable you, through an environment of reflection and research awareness, to develop into an autonomous professional who can initiate and respond to change in a wide variety of settings. You will embrace a vision of patient-centred care within contemporary health and social care environments. You will develop the attributes of a competent practitioner underpinned by knowledge enabling you to become, and remain, fit for purpose, delivering high quality, safe, integrated and effective care. During the programme, you will develop responsibility for your own continuing professional development and will be confident to function in partnership and leadership roles.

Key features of the BSc (Hons) Radiography (Diagnostic Imaging) programme are:

- Collaborative partnerships with a range of clinical bases which are well recognised;
- Expert teaching through a range of highly skilled, appropriately qualified and knowledgeable staff;
- Practical placements in a variety of healthcare environments supported by professionally registered clinical/practice educators with extensive knowledge and experience in a range of clinical specialities.
- A state of the art pre-clinical Radiography suite to ensure high level vocational skills with a Digital Health Hub for image interpretation skills training;
- Inter-professional education embedded within the programme allowing students to learn alongside other health and social care students. This is designed to contribute to professional understanding and respect as students of various professions learn with, from and about each other for the benefit of patient care;
- Comprehensive range of student support mechanisms (See the Student Handbook).
- Interprofessional Education
- Research embedded into the curriculum from year 1 of the programme
- Rotational element of clinical placements to broaden knowledge and embed resilience training.

[1] Learning Together - Working Together (DoH, 2001)

[2] The Ionising Radiation (Medical Exposure) Regulations (DoH, 2000)

[3] Radiography Skills Mix: A report on the four-tier service delivery model (DoH, 2004)

[4] 2016-2021 Society and College of Radiographers Research Strategy: Society and College of Radiographers (SCoR, 2015)

[5] Healthy Lives, Healthy People (DoH, 2010)

[6] Radiography Skills Mix: A report on the four-tier service delivery model (DoH, 2004)

[7] Education and Career Framework for the Radiography Workforce: Society and College of Radiographers (SCoR, 2013)

4. Aims of the programme

The broad aims of the programme are to enable you to:

- Gain the knowledge, skills, attitudes and values to underpin contemporary radiography (diagnostic imaging) practice and develop your competence in applying clinical skills to the practice of radiography (diagnostic imaging). You will develop your clinical reasoning and decision-making skills to enable you to undertake best radiography (diagnostic imaging) practice. The programme will facilitate your development of the competencies required for autonomous practice.
- Develop your research awareness and research application to radiographic practice and the wider health and social care context, and equip you with the skills to adapt and respond positively to change. In doing this, you will develop key transferable skills to prepare for graduate employment.
- Enhance the development of your interpersonal skills along with effective team working and partnership skills. This promotes engagement in lifelong learning, a key feature of the development of an autonomous professional.
- Cultivate effective inter-professional working practices that will facilitate the development of leadership, management and entrepreneurial skills.
- Achieve the standards of education and training that is approved by the Health and Care Professions Council and the Society and College of Radiographers and prepare you for lifelong learning throughout your career.

5. What you will learn

The intended learning outcomes of the programme (what students should know, understand and be able to do at the end of the programme), can be described under the following headings:

- Subject knowledge and understanding
- Subject specific skills
- Key or transferable skills (including employability skills)

Subject knowledge and understanding

The programme is designed to meet the Health and Care Professions Council's [HCPC] Standards of Education and Training (2017), therefore as a successful graduate of this programme, you will be equipped to meet the:

- HCPC's Standards of Proficiency: Radiographer (2013)
- HCPC's Standards of Conduct, Performance and Ethics (2016)

Subject specific skills

Successful students will be able to:

1. Demonstrate a critical understanding of the theories, models, principles and concepts underpinning radiography (diagnostic imaging) within the public policy and organisational context for health and social care practice and service delivery;
2. Practise safely, competently and confidently in radiography (diagnostic imaging) within the boundaries of legal, ethical and professional frameworks and be eligible to apply for entry to the professional register;
3. Adhere to and, where appropriate, challenge the boundaries, constraints and obligations inherent in professional practice employing skills of critical self-reflection and a commitment to lifelong learning;
4. Critically analyse, reflect upon and evaluate research findings, utilising these where appropriate, to underpin an evidence based approach to practice;
5. Communicate and work collaboratively with patients, carers and fellow professionals in an appropriate and context specific way;
6. Exhibit the appropriate professional values, attitudes and behaviours expected of an integrated member of the inter-professional healthcare team.
7. Demonstrate burgeoning leadership and management skills.

These elements are taught, developed and assessed via individual modules, across the three years of the programme. Achievement of the outcomes for the BSc (Hons) Radiography (Diagnostic Imaging) demonstrates the HCPC Standards of Proficiency (Radiographers). The programme has been mapped to the following regulatory body outcomes, subject benchmark statements and the professional body outcomes:

- HCPC Standards of Proficiency for Radiographers
- HCPC Standards of Education and Training
- QAA subject benchmarks for radiography
- SCoR Outcomes for Autonomous Practice (Practitioners)

Key or transferable skills (including employability skills)

Successful students will be able to demonstrate:

- The ability to use information and communication technology effectively;
- The ability to engage with numerical data and calculations, and understand their significance;
- The ability to communicate effectively in writing, including the use of language that is appropriate for a variety of audiences;
- The ability to critically review their own work;
- The capability to communicate effectively orally and visually, including participation in group discussions, communicating ideas and presenting information to a variety of audiences;
- The competence to use mature interpersonal skills and awareness, including: a capacity to work in groups both as a team member and as a leader, to be sensitive to the views of others, to be able to negotiate, and to be aware of how one's actions are seen by others;
- The ability to solve problems, including the ability to generate a variety of strategies to address a problem and design, implement and evaluate a solution that addresses the problem;
- The ability to use information handling skills which enables the individual to locate, assess and evaluate information and synthesise and build upon existing information;
- The proficiency to identify and develop a research question/hypothesis within research skills and to be able to construct a range of strategies and methods for answering research questions or testing hypotheses;
- An aptitude to develop independent study skills, including the maturity and judgement to manage one's own personal development and a capacity for self-reflection, self- assessment and self-criticism;

- A readiness for lifelong learning and recognition of its necessity within the profession.

Keele Graduate attributes

Engagement with this programme will enable you to develop your intellectual, personal and professional capabilities. At Keele, we call these our ten Graduate Attributes and they include independent thinking, synthesizing information, creative problem solving, communicating clearly, and appreciating the social, environmental and global implications of your studies and activities. Our educational programme and learning environment is designed to help you to become a well-rounded graduate who is capable of making a positive and valued contribution in a complex and rapidly changing world, whichever spheres of life you engage in after your studies are completed. <https://www.keele.ac.uk/journey>

6. How is the programme taught?

Learning and teaching methods used on the programme vary according to the subject matter and level of the module. The programme is structured around six key study themes that are introduced, developed and enhanced via individual modules over the three-year programme. In addition, study will include clinical practice throughout the three years. Each module has a clinical component, this is designed to ensure university learning and teaching integrates with the teaching and learning in clinical practice. Clinical/Practice training and education occurs in a range of health care provider organisations, including a large teaching hospital, district general hospitals and small private hospital providers. Most practice placements are currently within a 50-mile radius of the University.

Radiographic practical skills are taught initially in small groups in the university using simulation and role play, as are some other areas of the programme. The number of students within these groups is variable depending upon subject matter. In the clinical setting students work with designated clinical/practice educators and are also supported by visiting tutors from the School. This ensures integration of academic learning and clinical practice.

The University based elements of the programme are taught using a variety of blended learning approaches including:

Traditional lectures where the lecturer provides students with a framework and context for further reading and independent study; some lectures may feature invited external speakers who are clinicians, active researchers, and academics in the field of radiography, radiation science and related health practice. These utilise a blended teaching experience with in-situ, asynchronous online sessions and synchronous online sessions.

Interactive lectures to engage the students in their learning, for example the use of Audience Response Systems

Practical work allows students to observe the application of, or develop the acquisition of radiography (diagnostic imaging) practical skills under the supervision of academic staff

Simulation and role play, to allow the students to practice in a realistic, safe environment

Learning in the clinical environment (practice placements) where students develop their clinical and professional skills under the supervision of a designated practice educator(s)

Small group workshops when students work together to, for example, critically appraise papers relating to some aspect of radiography (diagnostic imaging) practice

Group workshops which require students to work together over an extended period to develop a piece of work

Individual and group presentations where students research and present a topic with relevance to practice (for example specific approaches to communication or reasoning for particular approaches in radiography research) to the whole group with time allowed for interactive questions and discussion

Student and tutor-led tutorials which encourage topics of interest and relevance to a theme to be discussed in depth within a small group; problem-solving scenarios and case studies may be used as a vehicle for such discussion

Web-based learning using the Keele Virtual Learning Environment (KLE) and Microsoft Teams: this is used by all modules and provides a platform for students to share online discussions and to access a wide range of learning resources.

Independent study will be required in each module; some study will be guided by tutors where necessary, but will also be self-directed in relation to the various demands of each module and its assessment. This type

of learning may be facilitated by use of various resources such as work packages and access to specific web based programmes. The development of a portfolio will also be used as a vehicle for learning. Independent study also forms an important part of the development of the final year research project, which is supported by a designated member of the academic staff.

Students will engage in **inter-professional learning** in groups made up of a range of other health and social care students.

Apart from these formal activities, students are also provided with regular opportunities to talk through particular areas of difficulty, and any special learning needs they may have, with their Personal Tutors or module lecturers on a one-to-one basis.

These learning and teaching methods enable students to achieve the learning outcomes of the programme in a variety of ways. For example:

- Lectures and independent study enable students to broaden and deepen their existing professional knowledge and understanding of the core scientific principles and concepts of radiography (diagnostic imaging), and to transfer scientific knowledge from theory into practice.
- Practical work in both university and clinical environments enables students to develop, enhance and update their learning of new skills under the supervision of experts and to ensure safe and competent practice, and to integrate theoretical and practical knowledge.
- Focusing on identification of common pathologies demonstrated on the radiographic image, while demonstrating the transferability of these skills to identification of the existence of less common pathologies.
- Discussion on a one-to-one basis following clinical work (de-brief session) using for example, case studies, justification of exposure of the patient to ionising radiation, with evidence and reflection upon experiences to identify personal learning needs.
- Small group work, such as seminars, and workshops, provides opportunities for students to clarify and exchange ideas, and to question and challenge professional concepts.
- Guided independent study, tutorials and the use of portfolios will assist the student to explore in depth, and evaluate, aspects of professional practice.
- Seminars, tutorials and web-based activities encourage students to reflect upon their learning and to take responsibility for its development, and to collaborate with others to share, explore, and evaluate ideas in greater depth.
- Undertaking a research-based project, using the support of small group workshops (where relevant) and tutorial supervision, further develops the student's independent learning and research capability; it also enables them to plan, implement and document a piece of research with relevance to radiography (diagnostic imaging) in line with the aims of the 2016-2021 Society and College of Radiographers Research Strategy. This piece of work encourages competence with IT skills including use of software packages for data analysis.

7. Teaching Staff

The permanent academic staff contributing to the programme are drawn from the University's School of Allied Health Professions along with contributions from specialist experts when appropriate. The School Team includes: professors, senior lecturers, lecturers, teaching fellows and academic related staff. All permanent academic staff are currently members of, or are working towards, membership of the Higher Education Academy. All permanent academic staff hold (or are working towards) academic qualifications to at least Masters Level. All staff who are recognised healthcare professionals, such as radiographers, physiotherapists or nurses are registered with the relevant body e.g. HCPC or NMC, and have had experience working in the NHS and other areas of healthcare. The academic staff group currently includes staff from different professions such as Radiographers, Physiotherapists, an Exercise Physiologist and a Biomedical Scientist. The staff group has extensive experience of teaching at undergraduate and postgraduate level and includes individuals with expertise in learning and teaching and research. The work of research active staff has been widely published and shared via conference presentations.

Several staff are active members of clinical specialist interest groups and in various research groups. The School of Medicine has honorary contracts in place with Consultant Radiologists and Medical Physicists.

The clinical component of the programme is delivered and assessed by a range of Practice Educators. These are suitably qualified and professionally registered clinicians working across a broad range of clinical environments who will undertake the SAHP Practice Educators training course (which includes regular updates). This will enable them to achieve the learning outcomes required to participate in the College of Radiographers Practice Educators Accreditation Scheme^[1].

^[1] Practice Educator Accreditation Scheme; The Approval and Accreditation of Educational Programmes and Professional Practice; Society and College of Radiographers 2006.

The University will attempt to minimise changes to our core teaching teams, however, delivery of the programme depends on having a sufficient number of staff with the relevant expertise to ensure that the

programme is taught to the appropriate academic standard.

Staff turnover, for example where key members of staff leave, fall ill or go on research leave, may result in changes to the programme's content. The University will endeavour to ensure that any impact on students is limited if such changes occur.

8. What is the structure of the Programme?

The programme is studied full-time over three years and the teaching is delivered via individual modules relating to six themes across each year. Each year is arranged into two units called semesters (Autumn and Spring) which vary in length. In each academic year, blocks of time are spent in both the university and clinical settings - Table 1. (The structure of the academic year is available in the Student Handbook).

N.B. Practice experience equates to a minimum of 1,350 hours over the course of the programme.

Table 1. Academic and Clinical Learning (illustrative)

	YEAR 1 / FHEQ LEVEL 4	YEAR 2 / FHEQ LEVEL 5	YEAR 3 / FHEQ LEVEL 6
Total weeks in education / annum	34	28 + elective period	28
Total weeks in University / annum	23	14	16
Academic teaching weeks / annum	23	11	13
Percentage time for academic study	79%	41%	50%
Clinical teaching weeks / annum	6	13 + 3 weeks elective	13
Hours available for clinical study / annum (7.5 hours x 5 days = 37.5 hours / week @ FTE)	225	600	487.5
Percentage time for clinical practice	21%	59%	50%

The course is structured around six themes each of which have an academic and clinical component. One relates to inter-professional learning (Collaborative Practice), one relates to research (Professional Development), and four relate to the key areas of Radiographic Practice:

- Radiographic Practice
- Radiographic Science
- The Human Body
- Image Interpretation

Each of these themes are introduced, developed and enhanced via individual modules over the three-year programme, each year carries 120 credits. Adopting a spiral curriculum approach[1] allows each theme to be revisited in subsequent years adding depth and breadth of knowledge. The curriculum also facilitates the progression from novice to advanced beginner to competent practitioner[2].

[1] Harden and Stamper (1999), General Teaching Council for England (2006)

[2] Benner (2001) and Benner (2009)

The academic year runs from September to June and is divided into two semesters. The degree course is organised into modules; all modules are compulsory modules (a module that you are required to study on this course).

The credit requirements per year is as follows: a minimum of 120 subject credits are required for each year/level of study.

For further information on the content of modules currently offered please visit:

<https://www.keele.ac.uk/recordsandexams/modulecatalogue/>

Year	Compulsory	Optional		Electives	
		Min	Max	Min	Max
Level 4	120	0	0	0	0
Level 5	120	0	0	0	0
Level 6	120	0	0	0	0

Module Lists

Level 4

Compulsory modules	Module Code	Credits	Period
Appendicular Anatomy	RDI-10008	15	Semester 1
Radiographic Appendicular Positioning and Image Evaluation 1	RDI-10014	15	Semester 1
Foundations of Research and Radiographic Science	RDI-10012	30	Semester 1-2
Professional Development and Collaborative Practice	RDI-10022	15	Semester 1-2
Axial Anatomy	RDI-10010	15	Semester 2
Radiographic Axial Positioning and Image Evaluation	RDI-10016	15	Semester 2
Practice Experience 1	RDI-10018	15	Semester 3

Level 5

Compulsory modules	Module Code	Credits	Period
Histology and Pathology	RDI-20007	15	Semester 1
Radiographic Skills and Image evaluation 1	RDI-20011	15	Semester 1
Practice Experience 2A and 2B	RDI-20009	30	Semester 1-2
Imaging Technologies: Principles and Research	RDI-20015	30	Semester 1-2
Radiographic Skills and Image Evaluation 2	RDI-20013	15	Semester 2
Image Interpretation 2.	RDI-20017	15	Semester 2

Level 6

Compulsory modules	Module Code	Credits	Period
Leadership, management and organisation.	RDI-30013	15	Semester 1
Initial Image Commenting	RDI-30007	15	Semester 1-2
Practice Experience 3a and 3b	RDI-30009	30	Semester 1-2
Patient Pathways	RDI-30011	30	Semester 1-2
Professional Development 3: Research Project	RDI-30015	30	Semester 1-2

9. Final and intermediate awards

The programme is designed to educate Radiography (Diagnostic Imaging) practitioners. Consequently, the expectation is that students will complete the full programme of study obtaining 360 credits and so be awarded BSc (Hons) Radiography (Diagnostic Imaging). Students usually accumulate 120 credits per academic year. If a student leaves the programme before completing 360 credits they may be eligible for an alternative award. Radiographers must complete an approved programme of study (minimum 360 credits) in order to use the title 'radiographer'. Any alternative award will not contain the term 'radiography' or 'radiographer'.

Whilst it is expected that students will complete the full programme, including the all of the academic and clinical components, it is possible for students to leave the BSc (Hons) Radiography (Diagnostic Imaging) programme with one of four final awards:

Honours Degree in Radiography (Diagnostic Imaging)	360 credits	You will require at least 120 credits at levels 4, 5 and 6. You must also have passed all clinical assessments. Graduates are eligible to apply for registration with the HCPC and on successful registration will be entitled to practice as a Diagnostic Radiographer in the UK.
Honours Degree in Imaging Studies	360 credits	You will require 120 credits at FHEQ Level 4 (Year 1) and 120 credits at FHEQ Level 5 (Year 2). If you are unable to achieve 120 credits within the BSc (Hons) Radiography (Diagnostic Imaging) programme but achieve a minimum of 100 credits (equivalent) at FHEQ Level 6 (Year 3), you will be offered an opportunity to study alternative elective module(s) to achieve the required minimum 120 credits at level 6, as advised by the relevant Programme Lead in the School. Upon successful completion in such circumstances and providing 360 credits have been achieved, the title of the award will be BSc (Hons) Imaging Studies. Graduates with this award will not be eligible for registration with the HCPC and will not be entitled to practice Radiography.
Diploma in Higher Education	240 credits	You will require at least 120 credits at level 4 or higher and at least 120 credits at level 5 or higher. This award does not confer eligibility to apply for registration with the HCPC or to practice as a radiographer.
Certificate in Higher Education	120 credits	You will require at least 120 credits at level 4 or higher. This award does not confer eligibility to apply for registration with the HCPC or to practice as a radiographer.

10. How is the Programme Assessed?

The wide variety of assessment methods used on this programme at Keele reflects the broad range of knowledge and skills that are developed as you progress through the degree programme. Teaching staff pay particular attention to specifying clear assessment criteria and providing timely, regular and constructive feedback that helps to clarify things you did not understand and helps you to improve your performance. The following list is representative of the variety of assessment methods used on your programme:

- **Written work/assignments** test the quality and application of subject knowledge. In addition, they

allow students to demonstrate their ability to carry out basic literature searches, communicate their ideas effectively in writing and support their arguments with appropriate referencing. Written pieces vary in their length depending upon the module.

- **Written Examinations** in different formats test students' knowledge and (as appropriate), their ability to apply that knowledge appropriately to professional practice. Examinations may consist of essay, short answer and/or multiple-choice questions.
- **Reflective assignments** enable the student to develop their skills of reflective learning and practice; these are fundamental skills used by all healthcare professionals as part of their continuing professional development
- **Oral presentations** assess students' subject knowledge and understanding. They also test their ability to work effectively as members of a team, to communicate what they know orally and visually, and to reflect on these processes as part of their own personal development.
- **Practical Examinations** - these occur in modules that involve the teaching and learning of practical clinical skills. These examinations enable students to demonstrate the safe and effective application of practical clinical skills, and to justify their choice
- **Research project** is a student led piece of independent research. Nominated supervisors support the student throughout the process, which includes gaining ethical approval from the Student Project Ethics Committee (SPEC) within the School of Allied Health Professions or other appropriate ethics committee. This assessment develops the student's capacity as an independent learner and their ability to engage in the research process. It also develops the student's IT skills in use of various software for presentation and data analysis (e.g. Word, Excel, SPSS)
- **Clinical assessment** is undertaken during clinical practice using the Practice Experience blocks. This is concluded with a written/oral assessment undertaken by the academic team to enable the students to demonstrate the safe and effective application of the academic learning in professional practice.

Marks are awarded for summative assessments designed to assess your achievement of learning outcomes. You will also be assessed formatively to enable you to monitor your own progress and to assist staff in identifying and addressing any specific learning needs. Feedback, including guidance on how you can improve the quality of your work, is also provided on all summative assessments within three working weeks of submission, unless there are compelling circumstances that make this impossible, and more informally in the course of tutorial and seminar discussions. Clinical competence is assessed as pass/fail within each of the modules. All clinical assessments must be passed to enable successful completion of the programme.

11. Contact Time and Expected Workload

This contact time measure is intended to provide you with an indication of the type of activity you are likely to undertake during this programme. The data is compiled based on module choices and learning patterns of students on similar programmes in previous years. Every effort is made to ensure this data are a realistic representation of what you are likely to experience, but changes to programmes, teaching methods and assessment methods mean this data are representative and not specific.

In this undergraduate course at Keele, students will experience a mix of contact time and assessment types dependent on the module. The figures below are an example of activities that a student may expect, by year (stage) of study. Contact time includes scheduled activities such as: lectures, seminars, tutorials, project supervision, demonstrations, practical classes and labs, supervised time in labs, and clinical placements. The figures are based on 1,200 hours of student effort each year for full-time students.

Activity

	Scheduled learning and teaching activities	Guided independent Study	Placements
Year 1 (Level 4)	29%	40%	31%
Year 2 (Level 5)	30%	35%	35%
Year 3 (Level 6)	25%	40%	35%

Students on the BSc(Hons) Radiography (Diagnostic Imaging) programme are required to attend 100% of academic and clinical hours for all years (stages) of study. These hours are reflected in the academic year calendar and in the online CELCAT timetable.

12. Accreditation

This programme is accredited by the Society and College of Radiographers and approved by the Health and Care Professions Council (HCPC).

Please note: Graduates of the programme are eligible to apply for registration with the Health and Care Professions Council (HCPC). In order to use the title 'radiographer' a practitioner must be registered with the HCPC. HCPC registration is a prerequisite for employment as a radiographer in the NHS. The programme is designed to meet the requirements of the HCPC Standards of Education and Training (2017) and HCPC Standards of Proficiency (Radiographers) and the Society and College of Radiographers (SCoR) Education and Career Framework for the Radiography Workforce (2013)

The programme design is consistent with outcomes for autonomous practice and guidance set out in the 'Indicative Curriculum for Practitioners' by the SCoR.

13. University Regulations

The University Regulations form the framework for learning, teaching and assessment and other aspects of the student experience. Further information about the University Regulations can be found at: <http://www.keele.ac.uk/student-agreement/>

If this programme has any exemptions, variations or additions to the University Regulations these will be detailed in an Annex at the end of this document titled 'Programme-specific regulations'.

14. Other Learning Opportunities

Some students may have the opportunity to present their 3rd year project work via poster or presentation at conferences. A contribution from the School towards the costs incurred by the student in these ventures may be available and will be considered on an individual basis.

Students will be encouraged to submit their research work for publication in Synergy: Imaging and Therapy Practice, to gain experience in writing for publication.

Such opportunities occur outside the normal timetabled programme thus a commitment of time will be required from the student.

15. Additional Costs

Student membership of the Society and College of Radiographers is required in all three years of the programme: at the time of writing [academic year 2021-22] costs £24 per year and is paid directly each year to the membership section of the Society.

Subscription to the Disclosure and Barring update service is a requirement of the programme for all three years. At the time of writing [academic year 2021-22] the initial DBS application cost is £40 and costs £13 per subsequent year which you pay online at the start of each academic year.

Various vaccinations must be completed before you undertake your first Practice Experience module. These are required to protect you, your family and your patients from infections and/or diseases that you may be exposed to whilst working as a student health professional. Obtaining these vaccinations and evidence of their completion is your responsibility and may be completed with your GP who will charge for these services. You are advised to check as the cost and feasibility of receiving these vaccinations at your GP practice. If you are unable to obtain vaccinations via your GP we will be able to arrange for you to receive them at the University but you should be aware that you will be responsible for the cost incurred. Occupational Health screening costs will be met by the School.

You will be required to purchase your own approved uniform to be worn for your Practice Experience modules [and for some examinations]. It is the students responsibility to order and purchase all their own uniform. The school will inform students where they are able to obtain appropriate uniform at a competitive cost. There is a practical uniform required consisting of a polo shirt and leggings with appropriate footwear, which is also at your own cost. A sweatshirt/ hoodie is available for purchase at a competitive price.

You will usually undertake a minimum of 1,200 - 1,350 hours of practice experience before graduating. Typical hours will be around 37.5 hours per week on practice experience modules. Practice experience opportunities are allocated based on availability and your clinical experience profile. You may be required to travel distances to complete practice experience and may prefer, therefore, to source accommodation for that time.

Variable costs associated with Practice Experience:

There are some associated costs with attending practice experience modules related to both travel expenses and accommodation. At the time of writing [academic year 2021-22] these costs are met by the NHS. We are awaiting communication from the Department of Health in regard to future funding arrangements which we

are advised are likely to be reviewed on an annual basis.

Many students continue to fund their own university/ private accommodation whilst accessing additional accommodation for less local practice experience settings.

Claim forms for travel costs must be submitted within six months from last day of the placement to be eligible for reimbursement.

Should you choose to undertake an elective placement abroad or beyond the usual geographical placement area for the programme, this may incur additional travel, health and liability insurance costs which must be paid for by you.

These costs have been forecast by the University as accurately as possible but may be subject to change as a result of factors outside of our control (for example, increase in costs for external services). Forecast costs are reviewed on an annual basis to ensure they remain representative. Where additional costs are in direct control of the University we will ensure increases do not exceed 5%.

As to be expected there will be additional costs for inter-library loans and potential overdue library fines, print and graduation. We do not anticipate any further costs for this programme.

16. Annex - Programme-specific regulations

Programme Regulations: BSc (Hons) Radiography (Diagnostic Imaging)

Final Award and Award Titles	BSc (Hons) Radiography (Diagnostic Imaging)
Intermediate Award(s)	Cert in Imaging Studies, Dip in Imaging studies (No HCPC registration status)
Last modified	n/a
Programme Specification	https://www.keele.ac.uk/qa/programmespecifications

The University's Academic Regulations which can be found on the Keele University website (<https://www.keele.ac.uk/regulations/>)[1] apply to and regulate the programme, other than in instances where the specific programme regulations listed below over-ride them. These programme regulations list:

- *Exemptions* which are characterised by the omission of the relevant regulation.
- *Variations* which are characterised by the replacement of part of the regulation with alternative wording.
- *Additional Requirements* which set out what additional rules that apply to students in relation to this programme.

The following **exemptions, variations** and **additional requirements** to the University regulations have been checked by Academic Services and have been approved by the Faculty Education Committee.

A) EXEMPTIONS

The clause(s) listed below describe where an exemption from the University's Academic Regulations exists:

For the whole duration of their studies, students on this Programme are exempt from the following regulations:

No exemptions apply.

B) VARIATIONS

No variations apply - deviations apply as approved by Senate:

Approved deviations from Keele University Academic Regulations are in place for the programme with regard to the following:

- Attendance.
- Students are required to pass the required coursework for all programme modules. Condonement and compensation of failure in any year is not permitted.
- Marks awarded at re-assessment.
- Number of re-assessment attempts.
- Progression.
- Awards.

Additional Requirements

The programme requirements listed below are in addition to the University's Academic Regulations:

Programmes Covered by The Regulations: These regulations apply to the following undergraduate programme: BSc (Hons) Radiography (Diagnostic Imaging) - full time route cohort entrants 2017 onward

Additional requirement 1: Fitness to Practise:

Students registered on the programme are subject to the University Fitness to Practise regulation (Keele University Regulation B5) <https://www.keele.ac.uk/regulations/regulationb5/>

Guidance: A student whose behaviour gives cause for concern regarding professional conduct or suitability will in the first instance, be advised of the implications of their behaviour and offered the opportunity to address the concerns raised. They will be advised that should there be no change in their behaviour, they will be referred to the School Health and Conduct Committee.

Where behaviour that gives cause for concern regarding professional conduct or suitability is repeated, the student may be issued with a School written warning and may then be referred to the School Health and Conduct Committee.

Where student behaviour gives cause for grave concern regarding professional conduct or suitability the student will be referred directly to the School Health and Conduct Committee.

The School of Allied Health Professions has a duty to ensure that students registered on the programme are fit to practise, in order to protect present or future patients, clients or service users and to comply with the requirements of professional / regulatory bodies. Students registered on the programme must comply with the requirements of the Society and College of Radiographers (SCoR) and the Health and Care Professions Council (HCPC).

Students must make known at the first opportunity, any issues which impact upon their ability to study effectively.

Guidance: It is the student's obligation to disclose any circumstances that may affect either their capacity to study effectively or their professional conduct and / or suitability. Failure to make such a declaration may constitute an issue of fitness to practise and may limit the grounds a student may invoke to support an appeal. Examples of the types of issues that it may be appropriate to disclose include temporary or permanent changes in health status, adverse personal circumstances or changes in Disclosure and Barring Service (DBS) status (these examples are not exhaustive). Where a student may be unsure as to whether disclosure is appropriate they must seek advice from their personal tutor, year head or the programme director. Any such advisory discussions will be treated in confidence and it will then be the student's responsibility to disclose information should they be so advised.

The School Health and Conduct Committee will monitor issues regarding student health and conduct that cause concern regarding a student's fitness to practise in line with the Faculty of Health Fitness to Practise policy and Keele University Fitness to Practise Regulation B5.

See: <https://www.keele.ac.uk/regulations/regulationb5/>

Additional requirement 2: Entry Requirements

- Entrance to the programme with advanced standing is not normally permitted.
- Acceptance on the programme is dependent on satisfactory medical screening.
- Acceptance on the programme is dependent on satisfactory review of any criminal convictions via the Disclosure and Barring Service (DBS) enhanced disclosure.

On commencement of the programme all undergraduates must complete consent and disclosure documentation. These must then be updated annually or sooner if there are changes to an individual student status.

Guidance: Any undergraduate who is found to have an undisclosed health condition, which may prejudice their ability to perform radiography effectively, may be required to leave the programme. <https://www.keele.ac.uk/students/supportingyou/>. Similarly, any student who is found to have an undisclosed criminal conviction may be asked to leave the programme, even though the conviction is

considered to be "spent".

On commencement of the programme, all BSc (Hons) Radiography (Diagnostic Imaging) students are required to register with the Society and College of Radiographers (SCoR) [hereafter referred to as the Society of Radiographers (SoR)]. Radiography undergraduates are, for the duration of their programme, student members of the Society of Radiographers.

Guidance: As Student Members of the Society of Radiographers, students have the benefit of professional liability insurance cover for practice experience in the UK and other countries (except North America and Canada), provided they are appropriately supervised. It is the responsibility of each student to ensure the validity of this insurance outside the UK.

Failure to register with the SoR will impact upon the student's professional liability status and will preclude the student from undertaking the practice experience modules of the programme. Such action will preclude completion of the programme. In these circumstances the student will be required to withdraw from the programme.

All undergraduate radiography students are obliged to comply with the Society of Radiographers (2013) Code of Professional Conduct, <https://www.sor.org/learning/document-library/code-professional-conduct>

Students must also comply with the Health and Care Professions Council's Guidance on conduct and ethics for students (2016) and work towards graduate attributes described in the Health and Care Professions Council Standards of Proficiency(2013). <https://www.hcpc-uk.org/standards/standards-of-proficiency/>.

Students must also comply with any supplementary guidance documents produced by regulatory and / or professional bodies. Failure to abide by SoR and / or HCPC rules and guidance may, following an investigation (see previous section), result in the student being required to withdraw from the programme.

Guidance: As Student Members of the SoR, students have responsibilities with regard to their conduct and behaviour. A copy of current documents, and / or electronic access to them, will be provided to each student on commencement of the programme.

All students must comply with the School requirements with regard to immunisation. Failure to comply with this regulation will preclude the student from undertaking the practice experience modules of the programme. Such action will preclude satisfactory completion of the programme. In these circumstances, the student will be required to withdraw from the programme.

All students must comply with School requirements in respect of ethical procedures and approval for activities related to the research project. Failure to comply with this regulation may constitute an issue of fitness to practise.

Additional requirement 3: Progression

Assessment exemptions are not normally [1] permitted.

Students must complete and sign consent and disclosure documentation at the beginning of each academic year in order to participate in the practical skills components of the programme. Students who do not complete this documentation will not be able to participate in the practical skills components of the programme. This will preclude students from undertaking practice experience modules and will result in the student being required to withdraw from the programme.

Guidance: Students are advised that failure to disclose / update information in this consent and disclosure documentation will be considered a breach of professional responsibility. Consequently, disciplinary and / or Fitness to Practise procedures may be invoked and the student may be required to withdraw from the programme (see also additional requirement 1).

In order to progress, students are required to pass the required assessment for all modules, thus being awarded the full 120 credits per academic year. Condonement or compensation of failure in any year is not normally [1] permitted. Practice experience assessments cannot be condoned or compensated. Students must successfully complete all modules on the programme (360 credits) to achieve the award of BSc (Hons) Radiography (Diagnostic Imaging).

The student must normally [1] have passed the relevant campus-based module(s) for all practice experience underpinning each placement prior to the start of the placement.

Guidance: In the case of failure of an underpinning module, the Programme Director, Practice Education Lead and the Personal Tutor will consider each individual case and recommend an appropriate course of action to ensure, as far as possible, safe practice in the practice setting. This action may delay the student's progress on the programme and may result in a delay in graduation.

Students will normally [1] be allowed one reassessment attempt, following initial failure of an assessment,

across all levels of the programme. Failure, on reassessment, normally [1] results in the student being required to withdraw from the programme.

Students who fail the practice experience assessment at the first attempt will be given the opportunity to repeat the assessment in the same location or in a different location in the same specialist area (following a period of remediation and induction), which will facilitate meeting of the learning outcomes.

All required practice experience (clinical placement) hours must be completed prior to assessment marks being finalised for each academic year; the course of action to be followed will be decided by academic staff and the clinical educator concerned.

In the event of failure of a practice experience assessment, the required time needed to successfully achieve the outstanding intended learning outcomes will be negotiated and agreed between the Practice Education Lead (or their appointed designate) and the practice educator.

Guidance Note: In the event of substantial levels of authorised absence from practice experience a review of the students' achievement of the module Intended Learning Outcomes (ILOs) and number of practice experience hours accrued will be undertaken by the Programme Director and / or Practice Education Lead. If the student has been unable to achieve all the module ILOs and / or there is a significant shortfall of accrued practice experience hours, appropriate remedial action will be recommended by the Programme Director and / or Practice Education Lead.

With regard to both campus and practice experience assessment, retrospective evidence will not normally [1] be considered in respect of any student appeal against an academic decision (see also additional requirement 3).

Submission of health-related extenuating circumstances for consideration at three or more consecutive examinations boards will normally [1] require the student to be referred for assessment to the Occupational Health Service.

Guidance: In these circumstances the school would recommend a referral to the Occupational Health Service in order for them to:

- *Explore with the student whether any underlying health issues exist and to provide guidance to the school about how these may be effectively managed.*
- *Determine what (if any) support measures and / or reasonable adjustments the school should put in place to maximise the student's academic performance.*

Students taking a leave of absence will not normally [1] be permitted to extend this leave of absence beyond one full academic year.

Guidance: This time limit is designed to ensure appropriate currency in student learning / professional competence thus supporting the maintenance of appropriate clinical standards and patient / colleague safety.

The maximum time frame for completion of studies will not normally [1] exceed 5 academic years.

Guidance: This time limit is designed to ensure appropriate currency in student learning / professional competence thus supporting the maintenance of appropriate clinical standards and patient / colleague safety.

Additional requirement 4: Awards

Programme awards are made under Keele University Regulation C3:
<https://www.keele.ac.uk/regulations/regulationc3/>

Students who have successfully completed all assessments (including a minimum of one thousand two hundred [1,200] hours of practice experience) and so have obtained full credits for the programme, will be awarded a BSc (Hons) Radiography (Diagnostic Imaging). These graduates will then be eligible to apply to register with the Health and Care Professions Council, a pre-requisite for employment as a radiographer in the UK. Graduates will also be eligible for full membership of the Society of Radiographers.

*Guidance: In order to achieve a BSc (Hons) Radiography (Diagnostic Imaging) and be eligible for registration with the Health and Care Professions Council candidates **MUST** successfully complete all modules and achieve 360 credits. Should a candidate fail to accrue 360 credits they will be offered:*

To revisit the failed assessment in line with current School and Keele University regulations. If successful, the candidate will be awarded a BSc (Hons) Radiography (Diagnostic Imaging) degree and thus be eligible to apply for Health and Care Professions Council registration.

An opportunity will be offered to study alternative elective module(s) to achieve the required minimum 120

credits at level 6, as advised by the relevant Programme Director in the School. Upon successful completion in such circumstances and providing 360 credits have been achieved, the title of the award will be BSc (Hons) Imaging Studies. Graduates will not be eligible for registration with the Health and Care Professions Council.

A candidate who fails to attain the standard required for the award of a Degree with Honours but is entitled to an intermediate award (Certificate or Diploma in Imaging Studies) will not be eligible for registration with the Health and Care Professions Council.

Where an award is made under Ordinance B6 (Aegrotat award) that award will be an unclassified degree in Imaging Studies. Aegrotat awards will not include the term 'Radiography'. Candidates who obtain an Aegrotat award will not be eligible for registration with the Health and Care Professions Council.

<https://www.keele.ac.uk/sas/academicservices/legalgovernance/governance/aegrotatandposthumousawards/>

Additional requirement 5: Attendance

Attendance at ALL components of the BSc (Hons) Radiography (Diagnostic Imaging) undergraduate programme is mandated. Designated module leaders may issue permission in writing for attendance in specified cases to be waived; this will not be applicable for practice, practical and tutorial attendance. As radiography is a professional programme, and students are expected to demonstrate appropriately responsible behaviour at all times. Students who do not comply with this attendance regulation may be subject to University disciplinary procedures and / or Health and Conduct / Fitness to Practise procedures.

Guidance: Attendance will be monitored and students with a poor attendance record without good cause will normally [1] be subject to disciplinary procedures. Students with a poor attendance record may be required to withdraw from the programme. Absences may be authorised (at the discretion of the Programme Director) where students comply fully with the procedure for reporting sickness and non-attendance.

Students who fail to comply with this attendance regulation may be acting outside their scope of practice and so be in breach of the SoR Code of Professional Conduct (2013) <http://www.sor.org.uk> and the Health and Care Professions Council Standards on conduct, performance and ethics for students (2016) <http://www.hcpc-uk.org/assets/documents/10002C16Guidanceonconductandethicsforstudents.pdf>

In such circumstances, the School may implement University disciplinary procedures and / or Health and Conduct / Fitness to Practise procedures. The School may then be unable to recommend the student to apply for entry onto the register of the Health and Care Professions Council, thus they would be ineligible to practice as a radiographer.

Additional requirement 6: Practice Experience Placements

The School will provide comprehensive requirements and guidelines for practice experience placements to which students must adhere. Failure to comply with this regulation may result in disciplinary action including action under the University Fitness to Practise regulation.

Where a student's professional conduct and / or suitability is deemed not to meet professional standards, the Programme Team may deem it inappropriate / unacceptable for the student to participate in the practice experience placements. Subsequently, the student may be required to withdraw from the programme.

A student demonstrating unprofessional / dangerous / unsafe behaviour in the practice setting will be withdrawn from the practice experience placement and may, following an investigation, be required to withdraw from the programme (see Fitness to Practise Regulation information).

Guidance: Students are also referred to the BSc (Hons) Radiography (Diagnostic Imaging) Clinical Practice Placement handbook for further information.

On distant practice experience settings, it is the student's responsibility to book non-hospital accommodation.

Students who are in practice experience setting accommodation must abide by the rules of the individual residences. Failure to do so may result in disciplinary action including action under the University Fitness to Practise regulation.

Payment of the practice experience setting accommodation invoices is the responsibility of the student.

Guidance: Where appropriate the cost of this second accommodation will be reimbursed.

Students who use their own transport to travel to and from practice experience settings must provide a copy of their insurance to the School in order to confirm their vehicles are covered for travel to and from their places of employment.

Guidance: Students are advised to check with their insurance companies if they are using their vehicle to travel between community bases during a working day that they are covered to do so.

No responsibility can be accepted by the School / University for personal property in practice experience settings or in practice experience setting accommodation.

Additional requirement 7: Module Assessment

General Principles: For campus-based assessment, the pass mark for all work is 40%.

Additional requirement 8: Submission of Assessment

Students must comply with the submission requirements documented in the current BSc (Hons) Radiography (Diagnostic Imaging) student handbook.

Additional requirement 9: Miscellaneous

All students must comply with School Health and Safety Guidelines contained within the BSc (Hons) Radiography (Diagnostic Imaging) student handbook.

Students must comply with the dress code required by practice experience settings. These guidelines are intended to explain to students the rationale for the expectations placed upon them and clarify our expectations that students will adhere to the policies of their host organisation. The Health and Care Professions Council (2016) expects healthcare students to behave and dress in a way that promotes a professional image and inspires public confidence.

Students must comply with the dress code required for practical classes. Jewellery may not be worn during practical classes or in practice experience settings except for a wedding ring (without raised gems) and one pair of stud earrings.

Guidance: If a student raises a faith-related issue with regard to clothing / jewellery regulations the School will contact a relevant religious authority for guidance.

It is the responsibility of each student to organise appropriate accommodation for teaching / practice experience / assessment periods outside the normal university semester dates.

Footnote on the word normally:

[1] Within professional practise scope and guidelines

Version History

This document

Date Approved: 07 July 2022

Previous documents

Version No	Year	Owner	Date Approved	Summary of and rationale for changes
1.1	2021/22	DESIREE O'LEARY	24 June 2022	Inclusion of clarifying statement that this version applies to L5 and L6 students only in 2022/23. A revised programme will be delivered to L4 students from 22/23.
1	2021/22	DESIREE O'LEARY	11 February 2021	
1	2020/21	DESIREE O'LEARY	19 December 2019	
1	2019/20	DESIREE O'LEARY	19 December 2019	