



## **Programme Specification**

### **Medical Imaging {JEP} [Hainan]**

Version: 2023-24, v2.0, 16 Jan 2025

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## Section 1: Key Programme Details

### Part A: Programme Information

**Programme title:** Medical Imaging {JEP} [Hainan]

**Highest award:** BSc (Hons) Medical Imaging

**Interim award:** BSc Medical Imaging Studies

**Interim award:** DipHE Medical Imaging Studies

**Interim award:** CertHE Medical Imaging Studies

**Awarding institution:** UWE Bristol

**Affiliated institutions:** Hainan Medical University

**Teaching institutions:** Hainan Medical University, UWE Bristol

**Study abroad:** No

**Year abroad:** No

**Sandwich year:** No

**Credit recognition:** No

**School responsible for the programme:** CHSS School of Health and Social Wellbeing, College of Health, Science & Society

**Professional, statutory or regulatory bodies:** Not applicable

**Modes of delivery:** Full-time

**Entry requirements:**

**For implementation from:** 01 September 2023

**Programme code:** B81G00

## Section 2: Programme Overview, Aims and Learning Outcomes

## **Part A: Programme Overview, Aims and Learning Outcomes**

**Overview:** The programme will not enable graduates to apply for registration with the UK Health and Care Professions Council (HCPC).

The aim of this programme is to develop a competent graduate in Medical Imaging to fulfil the demand of the workforce in an ever-evolving technical health and scientific landscape.

The programme has the innovative unique delivery of advanced clinical skills of image interpretation at the pre-registration level which has proven to enhance our graduate outcomes.

You will have access to a range of technology enhanced learning opportunities that include small group practical work in fully a functional x-ray room, Computed Tomography (CT) scanner and Magnetic Resource Imaging (MRI) scanners, radiographic software applications as well as university wide simulation technology.

The programme prides itself on the variety of methods used to deliver academic content that includes the use of expert practitioners, online facilitation and technology enhanced teaching tools with innovative assessment strategies. An androgogic and student-centred approach to learning is adopted, where you are encouraged and enabled to take responsibility for your own learning.

In addition to bespoke training, the University will provide access to both CT and MRI scanners which will provide opportunities to use 'state of the art' fully functional equipment for research and link theory and practice. The significant increase in clinical uses of CT and MRI in recent years is indicative of the vital role that this modality will play in Medical Imaging in the future, and this will enhance your skills to ensure you are ready and able graduate practitioners.

The Medical Imaging programme is where "real life" meets simulation and education promotes flexibility and adaptability for the workplace of the future.

**Features of the programme:** As well as graduating from Hainan Medical University with a BSc Medical Imaging, students will also achieve a BSc (Hons) Medical Imaging degree from the University of the West of England, Bristol UK. The Joint Education Programme (JEP) Framework provides a distinctive and unique learning and teaching experience, which brings together the international skill sets of both UK and China health professionals in an educational setting, to collaboratively deliver contemporary, evidence informed medical imaging education. It draws on medical imaging knowledge from a wide spectrum of professionals, creating a unique programme fit for employability within the healthcare sector. There is also an opportunity for collaborative learning with students from other health and social care professions through the health informatics-based Healthy Futures module.

There are various integral elements to the JEP, including the completion of general Chinese courses and comprehensive English language tuition during Year 1 of the programme, and then the profession specific teaching (which maps to the UWE validated modules) begins in Year 2 of the programme. Students will spend Year 4 in clinical practice, so all learning and assessment that maps to the UWE practice-based modules occurs in the final year of the programme. Students will also undertake their dissertation during the final year of the programme.

Students are required to undertake 135 credits of learning in some academic years in order to cover the required curriculum for both the UWE and the Hainan award prior to the practice placement year. This includes courses that align to higher academic levels. Where possible, those courses will be taught in a spiral curriculum approach with courses of similar level clustered together. Where the structure of the JEP means that students need to be introduced to teaching at a higher level within the academic year, there is clear signposting of that change in level, the associated learning outcomes and expectation : Timely and targeted study skills support will be woven into the programme to support this. UWE library will provide specific sessions aligned with the new level requirements e.g. critical writing. Hainan Academic personal tutors will provide support to the students on a one to one basis. Module leaders of the higher level modules have built in formative opportunities, and overtly refer to this in module handbooks.

The additional credits (usually 15) required in year 2 and year 3 (because of the placement year being in year 4) will require more time on the students' part. This has been considered by reducing the hours of the JEP from the traditionally taught courses on the Chinese home version of the programmes, thus making the delivery approach less "hours demanding" and didactic for the students. This has allowed for more protected study time for directed and self directed learning and assessment preparation ensuring a student centred approach. Overt planning for the assessment schedule has also enabled spreading the workload and will be monitored by the programme leader in collaboration with the module leaders.

The JEP has embedded support to ensure that students have the opportunity to build on their practical skills throughout the programme, in preparation for their practice placements in Year 4 of the programme. This includes the use of case studies, simulation and opportunities for students to observe in clinical settings prior to going out into practice along with opportunities for students to practice in 'noviciate' clinics. In addition, a 15-credit 'Preparation for Practice' module is also integral to the programme, being delivered at the end of Year 3, prior to the students going out into practice. The rotation of the practice placements are further scheduled to scaffold and support students as they build on their skills and experience with more support and supervision in place for the students in their first placement, progressing towards students working more independently in final placements, once the students have accumulated appropriate hours in practice. Placements in more complex settings (e.g. in emergency departments) are scheduled in the latter parts of the rotation.

**Educational Aims:** The programme aims to:

Develop safe and effective graduate practitioners who undertake a reflective and evaluative approach to their professional practice whilst promoting a value base that respects culture, equality and diversity

Enable graduates to be effective in self-management approaches and develop leadership potential, proactively engage in the process of lifelong learning and continuing professional development (CPD)

Understand and implement research-based and evidence-based practice to appreciate the broader context of health and social care activities and develop key interpersonal and professional skills to function effectively within the healthcare environment

### **Programme Learning Outcomes:**

On successful completion of this programme graduates will achieve the following learning outcomes.

### **Programme Learning Outcomes**

- PO1. Practice competently within the standards of conduct, performance and ethics expected of the profession
- PO2. Apply current legislation and guidelines governing the safe and effective delivery of ionising and non-ionising radiation.
- PO3. Integrate theory with practice using critical analysis, evaluation, reasoning and problem solving skills to enhance practice
- PO4. Adopt a holistic approach to the delivery of Diagnostic Radiography, which is responsive to the needs of the individual and service.
- PO5. Take a flexible approach, be adaptable to change and display leadership abilities, taking responsibility for continuing personal and professional development.
- PO6. Engage with research evidence for professional practice in Diagnostic Radiography.
- PO7. Work within an interprofessional framework using autonomous judgement to support patient care pathways.
- PO8. Utilise a range of communication strategies to ensure the effective support of the individual and service.

**Assessment strategy:** The Medical Imaging programme has a coherent assessment strategy which integrates the learning taking place at each level. A range of assessment strategies are employed throughout the programme to aid your engagement and enhance the inclusivity of the learning experience. Assessments are designed to be meaningful, relate to real world situations in both simulated and real life clinical environments. The range of assessment methods used will also

enable those with different learning styles to demonstrate their knowledge.

Within each module, you are guided through the assessment strategy by ensuring that a formative feed forward/feedback approach is adopted. Practice assessments and draft submissions are encouraged. With presentations, you will undertake step-by-step exposure to carrying out this type of task: firstly by using low stakes opportunities for you to work and present in small groups at regular opportunities before having to present as a summative assessment. Wherever possible, formative assessment opportunities will enable you to gain an understanding of the process.

**Student support:** Student support begins with a comprehensive induction programme where you are introduced to the course and academic life in general; IT systems; the library; support systems available, including student advisers, module leaders, and their Academic Personal Tutor (APT).

Each student will have an APT, who will facilitate you to manage the transition into the programme and progression from one stage/level to the next.

Student support through programme and module engagement, and library/study skills staff will help you to:-

- develop level learning skills and styles
- develop the capacity for effective group work and learning with and from peers
- see the importance of your role in university life
- develop an overview of your academic programme and the connections between modules and the wider world
- plan your 'preferred future' and develop the graduate skills, attributes and abilities that will help you achieve your goals
- recognise, describe and demonstrate your academic achievements and graduate skills.

Hainan Medical University also provide assistance and guidance for you through their wellbeing support and disability services. These can be accessed locally in a timely fashion to meet need.

The programme team will provide support for both you and your educators whilst on placement.

Each cohort will elect a student representative(s), who will attend student representative and staff forum, meeting regularly throughout the academic year. These meetings, along with informal feedback from students and the module evaluation surveys, are a key mechanism to identify any areas for development within the programme to continue supporting you and other students to have the optimal learning experience.

## **Part B: Programme Structure**

### **Year 1**

Hainan course units, not mapped to UWE credit:

Ideological, Moral and Legal Education

Outline of Modern Chinese History

Principles of Marx Doctrine

Mao Zedong Thought and Introduction to the Theoretical System of Socialism with Chinese Characteristics

Situation and Policy

Military Education

Physical Education

Public English

College Basic Computer Science

Occupation Development and Employment Guidance 1

Mental Health Education

Business Foundation

Labour Education

Students do not take UWE credit in Year one.

### **Year 1 Compulsory Modules**

Students must take Hainan course units (not mapped to UWE credit) and English modules detailed below.

<b>Module Code</b>	<b>Module Title</b>	<b>Credit</b>
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HNMU003	English for Academic Purposes [Hainan] 2023-24	0
HNMU004	English for Specific Purposes [Hainan] 2023-24	0

## Year 2

Hainan course units are mapped to UWE credit as detailed below (see further details in Appendices saved under Documents tab):

Mapped to UZYYKP-15-3 IV Contrast:

- Pathology(B)
- Biochemistry (C)

Mapped to UZYY9L-15-1 Fundamentals of Anatomy and Physiology (Diagnostic Radiography):

- Histology and Embryology(C)
- Physiology (B)

Mapped to UZYKGS-30-1 Principles of Radiographic Imaging Technique:

- Introduction to Clinical Medicine (A)
- Applied Anatomy of Medical Imaging 1 + 2
- Medical Imaging Diagnostics (B)

Mapped to UZYKGE-30-1 Physical Sciences and Imaging Technology 1:

- Medical Imaging Physics
- Electrical and Medical Electronics
- Medical Imaging Equipment
- Radiation Protection (IRMER 2017 and IRR 2017)

Mapped to UZYKGP-15-1 Clinical Context and Applications of Diagnostic Radiography 1:

- Fundamentals of Applied MRI and CT for the axial and appendicular skeleton
- Fundamentals of MRI and CT Operation and Application for the Body Regions

Mapped to UZYA5-15-2 Informing Practice through Research and Inquiry:

- Evidence Based Medicine
- Information Retrieval and Utilisation (Basic/ Advanced)
- Medicostatistics

## Year 2 Compulsory Modules

The student must take 120 credits from the modules in Compulsory Modules .

<b>Module Code</b>	<b>Module Title</b>	<b>Credit</b>
UZYKGP-15-3	IV Contrast 2024-25	15
UZY9L-15-1	Fundamentals of Human Anatomy and Physiology (Diagnostic Radiography) 2024-25	15
UZYA5-15-2	Informing Practice through Research and Inquiry (Diagnostic Radiography) 2024-25	15
UZYKGP-15-1	Patient Care, Clinical Context and Applications of Diagnostic Radiography 1 2024-25	15
UZYKGE-30-1	Physical Sciences and Imaging Technology 1 2024-25	30
UZYKGS-30-1	Principles of Radiographic Imaging Technique 2024-25	30

**Year 3**

Hainan course units are mapped to UWE credit as detailed below (see further details in Appendices saved under Documents tab):

Mapped to UZYKGT-30-2 Clinical Context and Applications of Diagnostic Radiography 2:

- Imaging Modalities and Patient Pathways - part 1
- Imaging Modalities and Patient Pathways - part 2
- Adapting Techniques for Changing Environments

Mapped to UZYKGV-30-2 Physical Sciences and Imaging Technology 2:

- Evaluating CT and MRI Performance
- Image Recording and Tele-radiography
- Quality Assurance and Patient Dosimetry

Mapped to UZYY9Q-15-3 Healthy Futures:

- Digital and Global Health
- Inter-Professional and Inter Agency Collaboration in Health

Mapped to UZYKGY-30-3 Skills for Informing Practice:

- Cross sectional imaging CT- Advanced Clinical Application
- Cross sectional imaging MRI- Advanced Clinical Application
- Image Commenting and Computer Aided Diagnosis (CAD)

Mapped to UZYYKN-15-1 Diagnostic Radiography Professional Practice Preparation:

- Professional Practice Preparation Course Unit 1
- Professional Practice Preparation Course Unit 2

Mapped to UZYKGJ-15-2 Professional Behaviour and Health Psychology :

- Medical Psychology
- Medical Ethics
- Health Law

**Year 3 Compulsory Modules**

The student must take 135 credits from the modules in Compulsory Modules.

<b>Module Code</b>	<b>Module Title</b>	<b>Credit</b>
UZYKGJ-15-2	Professional Behaviour and Health Psychology 2025-26	15

UZYKGT-30-2	Clinical Context and Applications of Diagnostic Radiography 2 2025-26	30
UZYKKN-15-1	Diagnostic Radiography Professional Practice Preparation 2025-26	15
UZY9Q-15-3	Healthy Futures 2025-26	15
UZYKGV-30-2	Physical Sciences and Imaging Technology 2 2025-26	30
UZYKGY-30-3	Skills for Informing Practice 2025-26	30

#### Year 4

Hainan course units are mapped to UWE credit as detailed below (see further details in Appendices saved under Documents tab):

Mapped to UZYAA-30-3 Research and Evidence in Practice:

- Dissertation

Mapped to UZYKM-15-1 Diagnostic Radiography Professional Practice 1:

- Graduation Practice

Mapped to UZYKGU-30-2 Diagnostic Radiography Professional Practice 2:

- Graduation Practice

Mapped to UZYKGX-30-3 Diagnostic Radiography Professional Practice 3:

- Graduation Practice

#### Year 4 Compulsory Modules

The student must take 105 credits from the modules in Compulsory Modules.

Module Code	Module Title	Credit
UZYKM-15-1	Diagnostic Radiography Professional Practice 1 2026-27	15
UZYKGU-30-2	Diagnostic Radiography Professional Practice 2 2026-27	30
UZYKGX-30-3	Diagnostic Radiography Professional Practice 3 2026-27	30

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UZYAA-30-3	Research and Evidence in Practice (Diagnostic Radiography) 2026-27	30
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### **Part C: Higher Education Achievement Record (HEAR) Synopsis**

Medical Imaging graduates will demonstrate knowledge, skills and attributes necessary to provide effective and holistic care for patients.

Graduates will be able to integrate theory with practice using critical analysis, reasoning and autonomous judgment. They will undertake multi-professional team working and communicate effectively with service users, carers and the wider healthcare team. They will be competent, reflective practitioners with an understanding of clinical and key performance indicators with the ability to critique and review research evidence to inform practice.

Medical Imaging graduates will adhere to professional codes of conduct and ethics and upon qualification be fit to practice as entry-level diagnostic radiographers in China.

### **Part D: External Reference Points and Benchmarks**

The programme reflects the philosophy, core values and skills and knowledge base as described in a range of profession specific drivers. At its core, the programme's learning outcomes are built on the UK Professional Statutory Regulatory Body (PSRB) standards of proficiency, education and training.

The UWE Enhancement Framework is embedded at all levels of study with particular reference to providing a strong student focus, ensuring the best experience both academically and socially; to ensuring open and responsive communications and showing full commitment to equity, fairness and inclusivity with a "can do approach".

UWE Enhancement Framework: <https://www.uwe.ac.uk/a...g/enhancement-framework>

The Framework for Higher Education Qualifications:

The learning outcomes have been developed with reference to the qualification descriptors used in the QAA Framework for Higher Education Qualifications. In particular, the learning outcomes for the modules at Final Year are considered consistent with the QAA's descriptor for a higher education qualification at level 6: Bachelor's degree with honours. Graduates of the programme achieving an Honours classification will have developed a systematic understanding of key aspects of rehabilitation and exercise prescription. In addition, graduates will have developed analytical techniques, problem-solving skills and communication skills that can be applied to a range of employment opportunities

The design of the BSc (Hons) Medical Imaging programme at all levels is based on the reference points and benchmarks set out by the:

University of the West of England, Bristol (2014) Sustainability Plan 2013 – 2020.

UWE, Bristol. [Online] Available at:

<http://www1.uwe.ac.uk/aboutus/visionandmission/sustainability/sustainabilityaction/sustainabilitydocuments.aspx>

UWE 2030 Strategy: <https://www.uwe.ac.uk/about/values-vision-strategy/strategy-2030>

Education for Sustainable Development UWE is committed to ensuring that its students and future graduates, are equipped with the skills knowledge and attributes that will enable them to thrive in the challenging environment of the 21st century. As part of this commitment the university has developed a comprehensive approach to embedding Education for Sustainable Development (ESD) within the curricula of the University (UWE, 2014).

### **Part E: Regulations**

Variants to University Academic Regulations and Procedures will be required for this programme as follows:

- A UWE Bristol module is made up of one or more JEP course units. To pass a

UWE module, a student must achieve a mark of 40% for each of the JEP course units and a mark of 40% overall.

- Until a student has passed all of the JEP course units that make up a UWE module, they will not pass the UWE module.
- Other variants may be required and will be confirmed prior to validation.