



## **Module Specification**

### **Enhancing Nuclear Medicine Practice**

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## Part 1: Information

**Module title:** Enhancing Nuclear Medicine Practice

**Module code:** UZYSQ5-30-M

**Level:** Level 7

**For implementation from:** 2026-27

**UWE credit rating:** 30

**ECTS credit rating:** 15

**College:** College of Health, Science & Society

**School:** CHSS School of Health and Social Wellbeing

**Partner institutions:** None

**Field:** Allied Health Professions

**Module type:** Module

**Pre-requisites:** None

**Excluded combinations:** None

**Co-requisites:** None

**Continuing professional development:** Yes

**Professional, statutory or regulatory body requirements:** None

## Part 2: Description

**Overview:** The module will discuss several emerging topics in nuclear medicine, in relation to clinical technique, professional practice, and overall impact on patient management.

**Features:** Not applicable

**Educational aims:** This module aims to:

consider current and emerging practices in Nuclear Medicine practice, whilst discussing appropriate strategies for service improvement. This will ensure that students are well placed to be leaders of their respective clinical departments in the future.

enable students to understand and apply legal, ethical, and professional standards, whilst being able to reflect on their personal and professional development within a multidisciplinary environment.

**Outline syllabus:** The syllabus will typically include:

Data Acquisition and Processing:

The optimal use of imaging parameters and technological advancements within current Nuclear Medicine practice

Consideration as to the values of various data acquisition and image processing techniques

Introduction to 3D reconstruction algorithms

Nuclear Medicine Strategic Developments:

The importance of planned preventative maintenance within the Nuclear Medicine environment

An introduction to equipment procurement

Awareness of the optimal running of a modern Nuclear Medicine department with linkage to current professional drivers

Consideration as to the importance of workforce development and support frameworks

Critical evaluation of radiopharmacy procedures, working environments, legislation and distribution methods

Awareness of Disease Processes – Diagnosis and Treatment:

Understand the role of Nuclear Medicine in the management of a wide range of disease processes

Consideration as to the level of knowledge needed by the Nuclear Medicine workforce to fully understand a range of common disease processes

Awareness of the developing nature of Nuclear Medicine and how such development may influence current patient pathways

Therapeutic Nuclear Medicine and the use of Nuclear Medicine in planning, treatment and monitoring regimes

Enhancement of understanding associated with radiation dosimetry Advancing Aspects of Nuclear Medicine Practice

Future developments within the field of Nuclear Medicine / molecular imaging

Future considerations related to developing radioisotope tracers /radiopharmaceutical shortages

Consideration as to the developing role of the Nuclear Medicine Practitioner

Consideration as to the use of other imaging modalities within the Nuclear Medicine environment

Research in Nuclear Medicine:

Current research areas associated with Nuclear Medicine/molecular imaging

Evidence based practice

Current themes associated with service improvement in Nuclear Medicine

### **Part 3: Teaching and learning methods**

**Teaching and learning methods:** The teaching and learning strategy for this module has been developed to provide students with the opportunity to consider the current status of Nuclear Medicine services and to appreciate a range of strategic and technological advancements that have the potential to further enhance the modality.

Students will be required to engage with and contribute to online discussion boards where specific tasks will be set. These tasks will be constructed to ensure that the module learning outcomes are addressed. Contributions to these tasks will form source material from which students may extract content to add to their poster presentation. Experience from other modules using this format indicates the potential for valuable discussion relating to the module content and helps ensure timely engagement. The capacity to engage in debate with peers helps to facilitate networking, peer/shared learning and knowledge exchange.

A variety of content delivery approaches will be used including; narrated presentations, discussion boards, on-line tutorials, and article review. Additional student centred learning, guided by tutorials and discussion forums, will include directed practical exercises to be undertaken in the student's place of work.

**Module Learning outcomes:** On successful completion of this module students will achieve the following learning outcomes.

**MO1** Critically analyse current and emerging practices in Nuclear Medicine.

**MO2** Develop and evaluate strategies for service improvement in the context of leading a nuclear medicine clinical environment.

**MO3** Understand and apply legal, ethical, and professional standards in the nuclear medicine context.

**MO4** Critically reflect on personal professional development and multidisciplinary roles.

**Hours to be allocated:** 300

**Contact hours:**

Independent study/self-guided study = 228 hours

Face-to-face learning = 72 hours

**Reading list:** The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/uzysq5-30-m) via the following link <https://uwe.rl.talis.com/modules/uzysq5-30-m>

## **Part 4: Assessment**

**Assessment strategy:** An online presentation 'conference-style' poster defence (20 minutes maximum; 10 minutes presentation, 10 minutes defence)

The production of a 'conference style' poster prior to an online presentation and defence.

This assessment will allow the student to evaluate current practice, consider future practice and demonstrate an awareness of the potential benefits that such developments might bring.

Formative feedback on allocated study tasks will be provided. Contact with the module leader for discussion of module related issues will be facilitated by email, phone conversations and through interaction at the knowledge exchange events.

**Assessment tasks:**

**Presentation (First Sit)**

Description: Online 'conference style' poster presentation

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

**Presentation (Resit)**

Description: Online 'conference-style' poster presentation

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

**Part 5: Contributes towards**

This module contributes towards the following programmes of study:

Nuclear Medicine [Distance] MSc 2025-26

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