



CORPORATE AND ACADEMIC SERVICES

MODULE SPECIFICATION

| Part 1: Basic Data | | | | | |
|-----------------------|---|--------------------|---------------------------|--------------|----------|
| Module Title | Principles of Radiotherapy and Oncology | | | | |
| Module Code | UZYSWQ-15-M | Level | M | Version | 1 |
| Owning Faculty | Faculty of Health and Applied Sciences | Field | Allied Health Professions | | |
| Contributes towards | MSc Radiotherapy and Oncology pre-registration 2 year | | | | |
| UWE Credit Rating | 15 | ECTS Credit Rating | 7.5 | Module Type | Standard |
| Pre-requisites | None | | Co- requisites | None | |
| Excluded Combinations | UZYSHL-20-M Fundamentals of Radiotherapy and Oncology | | Module Entry requirements | None | |
| Valid From | January 2016 | | Valid to | January 2021 | |

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| CAP Approval Date | 6 October 2015 |
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| Part 2: Learning and Teaching | |
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| Learning Outcomes | <p>On successful completion of this module students will be able to:</p> <ol style="list-style-type: none"> 1. Discuss the basis of cancer development and progression, with consideration to the associated risk factors (Component A) 2. Discuss the fundamental principles of external beam radiotherapy, including the radiobiological principles that underpin radiotherapy prescriptions (Component A) 3. Explain cancer management strategies used to treat common cancers (Component A) 4. Describe the anatomy, physiology and oncology for a range of common cancers (Component A) 5. Demonstrate relevant and detailed knowledge of scientific, technical and patient care principles in relation to routine radiotherapy procedures (Component A) |
| Syllabus Outline | <p>Introduction to Radiotherapy and Oncology</p> <ul style="list-style-type: none"> • Molecular basis of cancer |

| | |
|----------------------------------|---|
| | <ul style="list-style-type: none"> • Epidemiology and aetiology of cancer and health promotion initiatives • The classification of tumours, staging and grading • Anatomy and physiology relating to the cancers investigated <p style="text-align: center;">Diagnosis and Treatment</p> <ul style="list-style-type: none"> • Role of clinical investigations and screening in diagnosis • Fractionation schedules and prescriptions related to treatment intent. • Principles of radiotherapy and adjuvant modalities <p style="text-align: center;">Patient management</p> <ul style="list-style-type: none"> • Recognition of the importance of appropriate communication skills and the impact of a cancer diagnosis for patients and carers • Radiotherapy side effects and their management. Commonly used medications in the radiotherapy department and their methods of administration and dosage. |
| Contact Hours | <p>This module has a blended approach to learning and will require independent study to achieve the learning outcomes.</p> <p>Scheduled learning will consist of lectures and seminars which will be approximately 4 hours a week. Practical sessions using VERT will be additional to these to link theory with practice and to consolidate knowledge, these will be approximately 6 hours per week.</p> <p>Independent study will be undertaken in collaboration with scheduled teaching and this will be approximately 5.5 hours per week over the 15 week duration of the module.</p> |
| Teaching and Learning Methods | <p>Scheduled learning includes lectures, seminars, practical classes e.g. VERT and radiotherapy computer planning sessions. In this module there will be a structured visit to a regional Oncology centre.</p> <p>Independent learning includes hours engaged with essential reading, case study preparation for formative assessment, VLE discussion boards, accessing online material, and preparation for summative assessment.</p> |
| Key Information Sets Information | <p>Key Information Sets (KIS) are produced at programme level for all programmes that this module contributes to, which is a requirement set by HESA/HEFCE. KIS are comparable sets of standardised information about undergraduate courses allowing prospective students to compare and contrast between programmes they are interested in applying for.</p> |

| Key Information Set - Module data | | | | |
|--|---|-------------------------|-----------------------|-----------------|
| Number of credits for this module | | | | 15 |
| Hours to be allocated | Scheduled learning and teaching study hours | Independent study hours | Placement study hours | Allocated Hours |
| 150 | 66 | 84 | 0 | 150 |

The table below indicates as a percentage the total assessment of the module which constitutes a -

Written Exam: Unseen written exam

Please note that this is the total of various types of assessment and will not necessarily reflect the component and module weightings in the Assessment section of this module description:

| Total assessment of the module: | |
|--------------------------------------|------|
| Written exam assessment percentage | 100% |
| Coursework assessment percentage | 0% |
| Practical exam assessment percentage | 0% |
| | 100% |

Reading Strategy

Core readings

Any essential reading will be indicated clearly, along with the method for accessing it, e.g. students may be expected to purchase a set text, be given a study pack or be referred to texts that are available electronically, or in the Library. Module guides will also reflect the range of reading to be carried out.

Further readings

All students are encouraged to read widely using the library catalogue and Internet resources. Many resources can be accessed remotely. Guidance to some key authors and journal titles available through the Library will be given in the Module Guide and updated annually.

Access and skills

Formal opportunities for students to develop their library and information skills are provided within the induction period. Additional support is available through the Library Services web pages, including interactive tutorials on finding books and journals, evaluating information and referencing. Sign-up workshops are also offered by the Library.

Indicative Reading List

Indicative reading list

The following list is offered to provide validation panels/accrediting bodies with an indication of the type and level of information students may be expected to consult. As such, its currency may change during the life span of the module specification. *Current* advice on additional reading will be available via the module guide or Blackboard pages.

Cancer Research UK (2014) *CancerStats: Cancer statistics for the UK*. Available from: <http://www.cancerresearchuk.org/cancer-info/cancerstats/>. [Accessed 15 September 2014]

Department Of Health (2012) *Radiotherapy Services in England*. Available from: <https://www.gov.uk/government/publications/radiotherapy-services-in-england-2012>. [Accessed 15 September 2014]

Department Of Health (2012) *Improving Outcomes: A strategy for cancer*. Available from: <https://www.gov.uk/government/publications/improving-outcomes-a-strategy-for-cancer>. [Accessed 15 September 2014]

Dobbs, J., Barratt, A., Morris, S., and Roques, T. (2009) *Practical Radiotherapy Planning* [online] 4th Ed. London: Hodder Arnold. [Accessed 15 September 2014]

Hoskins, P. (2012) *Radiotherapy in Practice: External Beam Therapy* [online] 2nd ed. Oxford: Oxford University Press. [Accessed 15 September 2014]

Symonds, P. and Walter, J. (2012) *Walter and Miller's Textbook of Radiotherapy* [online] London: Churchill Livingstone. [Accessed 15 September 2014]

A&P BSC reading list

Part 3: Assessment

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| Assessment Strategy | <p>Component A – 2 hour unseen written examination. Rationale: To allow assessment of a broad syllabus to ensure that students have the underpinning knowledge necessary for clinical practice for the first clinical placement. This exam could include a variety of question approaches.</p> <p>Formative assessment will be achieved by a wiki being undertaken to incorporate the anatomy and oncology aspects. The students will get an opportunity to present this formatively to their peers.</p> |
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| Identify final assessment component and element | A | |
| % weighting between components A and B (Standard modules only) | A: | B: |
| | 100 % | |
| First Sit | | |
| Component A (controlled conditions) Description of each element | Element weighting (as % of component) | |
| 1.Unseen written exam (2hrs) | 100% | |
| Component B Description of each element | Element weighting (as % of component) | |
| 1. | | |

Resit (further attendance at taught classes is not required)

| Component A (controlled conditions) | |
|--|--|
| Description of each element | Element weighting (as % of component) |
| 1. Unseen written exam (2hrs) | 100% |
| Component B | |
| Description of each element | Element weighting (as % of component) |
| 1. | |
| <p>If a student is permitted an EXCEPTIONAL RETAKE of the module the assessment will be that indicated by the Module Description at the time that retake commences.</p> | |