Applications of ultrasound science 7HSK0092 15 Credits at level 7

This course runs in combination with other modules during the weeks beginning:
Monday 2nd October 2017
Monday 13th November 2017
Monday 11th December 2017
Monday 5th February 2018
Monday 5th March 2018
Monday 23rd April 2018

Exam: Wednesday 9th May 2018.

This course is designed for radiographers and health care professionals who are interested in the application of the scientific principles of diagnostic ultrasound imaging and the safe practice of diagnostic ultrasound. It is a compulsory module within the Medical Imaging and Radiation Sciences – Diagnostic Ultrasound programme.

Course aims

- The aims of this course are to enable students to:
  - Apply scientific principles underpinning diagnostic ultrasound imaging to the safe clinical practice of diagnostic ultrasound
  - Have knowledge and understanding of system controls and their underlying physical principles
  - Have understanding of the range of scanning equipment and ancillary equipment currently available in order to justify and critically evaluate its use in diagnostic ultrasound examinations
  - Have critical awareness of the possible bio effects and safety measures encountered in diagnostic ultrasound utilising the information and knowledge to practice in a safe and competent manner
  - Critically evaluate the principles governing safe practice in diagnostic ultrasound imaging
  - Recognise the production of image artefacts in diagnostic ultrasound and be able to apply this knowledge in the clinical setting

Content

This course is designed to give you an understanding of the scientific principles related to the production of an ultrasound image while developing independent, creative thinkers.

The course encourages you to take independent study, both as an addition and a combination of what you learn. This broadens your knowledge and understanding of the subject. Active participation in group activities is a requirement for all participants.

Assessment

The assessment is a combination of one written assignment and a 2 hour examination.

Who teaches this course?

The course is facilitated by University staff and external lecturers. Delivery of the course incorporates blended learning which aims to combine e-learning activities with campus based learning.

What our students say

“Very good lectures, made a difficult subject interesting to learn. Very supportive and knowledgeable staff. Presentation advice and support very good before the day. Would recommend course and staff to fellow colleagues.” Student on 2016 cohort

“I found this module challenging but very interesting. The way in which the module has been taught (good notes, enthusiastic lecturers) has really made my understanding of physics stronger. The lecturers were extremely helpful and I felt I could approach them at any time with queries which they answered very clearly. This really helped.” Student on 2015 cohort

Cost

The fee for new self-funding students is £680. Please note that the fee may vary depending on your source of funding and whether you are a returning student. To find out information about the fees visit go.herts.ac.uk/cpdfees.

The course forms part of a broader CPD framework that can lead to the award of Postgraduate Certificate, Postgraduate Diploma or Master’s degree

Course Enquiries
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