Department of Allied Health Professions and Midwifery

Science and principles of computed tomography (CT)  7HSK0102 15 Credits
at level 7

This course runs over 4 days: **Monday 5th and Tuesday 6th Mar 2018,**
**Monday 23rd and Tuesday 24th Apr 2018**

This course is mainly designed for radiographers and other health professionals who want to develop their skills and knowledge of computed tomography to support their day to day activities in professional practice. However it is also relevant to postgraduate students with an interest in medical physics.

**Course aims**
The aim of this course is to enable you to enhance your knowledge and understanding of the scientific principles and operation of Computed Tomography (CT) equipment.

**Content**
This course explores the scientific principles of Computed Tomography (CT). You will study the concepts and principles of CT, safety, principles of operation and the associated risks and benefits.

Students are encouraged to examine the relationships between CT operating parameters, image quality, scan time and radiation dose. A clinical placement in CT is helpful but not essential.

The course covers the following areas:
- Evolution of CT
- Data acquisition
- CT image reconstruction
- Image manipulation
- CT scanning parameters
- Dose reduction methods in CT
- Artifacts in CT
- Safety aspects of CT

**Assessment**
This typically consists of an essay or assignment.

**Who teaches this course?**
Teaching is based on a combination of lectures, tutorials, small group seminars/workshops.

**Cost**
The fee for new self-funding students is £680.00.
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.