

PLEASE COMPLETE IN BLOCK CAPITALS

Surname: Forename:

Organisation:

Address:

.....Postcode:

Tel No:..... Email:.....

Background experience:

How did you hear about this course? ICR website Recommendation Other

Please specify.....

I would like to enrol for the following Course(s) (Please tick)

PRICES GBP & EUROS	Course 1	Course 2	Course 3	Course 4	Course 5
Standard price	£460 €510	£460 €510	£150 €170	£460 €510	£610 €680
University & Hospital Staff & all Trainees	£360 €399	£360 €399	£120 €133	£360 €399	£480 €531
Full time Students *	£180 €200	£180 €200	£105 €116	£180 €200	£240 €266
Other	Please contact the Course Secretary if you do not fit into the categories above.				
Course 3 available at £105 (€116) if booked with any other course. One or two day registration on Courses 4 & 5 is accepted and will be charged pro rata.					

Total Cost: £.....

***Full time Students** - please forward a letter on headed notepaper signed by your tutor with your application confirming that you are a full time student.

PAYMENT

Invoice – please raise a Purchase Order to – The Institute of Cancer Research, 123 Old Brompton Rd, London, SW7 3RP. PO Number:.....

OR

Bank Transfer Payment – please contact physecs@icr.ac.uk for details.
Reference for payment - The Institute of Cancer Research – DRIPHYAAD.

Are happy for your details to be passed onto the course(s) lecturers and other delegates attending the Physics of Medical Imaging Course(s) by way of an attendee list? Yes No

Please email this completed form and forward your payment to the course administrator:

e-mail: Physecs@icr.ac.uk

Course Administered by:-

Physics Department

The Royal Marsden NHS Foundation Trust , Downs Road, Sutton, Surrey. SM2 5PT UK

Tel. +44 (0)20 8661 3075

THE PHYSICS OF MEDICAL IMAGING

Course 1: Mon 26 – Wed 28 Oct 2020

Magnetic Resonance Imaging and Spectroscopy (Virtual Course)

Course 2: Wed 11 – Fri 13 Nov 2020

Ultrasound Imaging (Virtual Course)

Course 3: Tues 9 Feb 2021

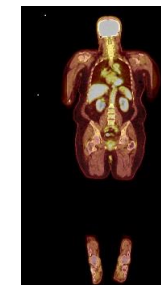
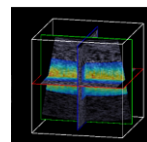
Image Theory, Perception and Processing (Virtual Course)

Course 4: Weds 10 – Fri 12 Feb 2021

Diagnostic Radiology and CT (Virtual Course)

Course 5: Tue 9 – Fri 12 Mar 2021

Nuclear Medicine (Virtual Course)



The Joint Department of
Physics
The Institute of Cancer
Research and
The Royal Marsden NHS
Foundation Trust

PROGRAMME DESCRIPTION

The programme provides the necessary physics background that underpins day-to-day medical imaging physics activities. It is aimed primarily at new entrants to the profession, but should be of benefit to post-graduate students, post-doctoral research workers, physicist-managers, representatives of allied commercial organisations and anyone wishing to deepen or re-establish their understanding of the physics of medical imaging.

The faculty is composed mainly of physicists, many of whom are internationally renowned for their expertise. A selection of key talks delivered by clinicians and other scientists provides the necessary broader scientific and clinical perspective. Overviews of specialised or research related topics, such as MR Spectroscopy are given. There are many opportunities for informal discussions and there will be visits to the Department of Nuclear Medicine, Ultrasound, X-ray and Computed Tomography and the MR Units of The Royal Marsden NHS Foundation Trust and / or the research labs of the Institute of Cancer Research.

The programme consists of five separate courses. Each course is repeated annually. Registration on this form will be accepted for any combination of courses 1, 2, 3, 4 and 5. Cost includes (with courses 2-5 only) a copy of Webb's Physics of Medical Imaging (2nd Edition, published 2012).

PROVISIONAL SYLLABUS

COURSE 1 – Magnetic Resonance Imaging and Spectroscopy (3 days)

The Magnetic Resonance Imaging & Spectroscopy module is offered as a stand-alone training course. Approved for CPD by IPEM. Further details are available on the website:

http://www.icr.ac.uk/mri_spectroscopy_course

Course Organiser: Dr S Doran, Tel: 020 8661 3718 email: Simon.Doran@icr.ac.uk

Course Administrator: Mrs M Porter, Tel: 020 8772 4512, e-mail: Melisa.Porter@icr.ac.uk

COURSE 2 – Ultrasound Imaging Virtual (3 days)

Fundamentals of ultrasound and its interaction with tissues; Acoustic fields, transducers and beam formation; Physical and engineering principles of ultrasound imaging, Doppler, microbubble contrast and elastography; Bioeffects and safety principles, Assurance of quality and acoustic safety of ultrasound diagnostic devices, Fields of medical application and research.

Course Organiser: Mr M O'Leary, Tel: 020 3437 6341 e-mail: Mark.Oleary@icr.ac.uk

Course Administrator: Tel: 020 8661 3075 email: Physecs@icr.ac.uk

Front cover pictures: Top Left: Coloured elasticity image overlayed on a 3D B mode; Bottom Left: image of liver tumours with ultrasound contrast agent overlayed on normal B mode; Centre: volume-rendered bifemoral CT angiogram; Right: coronal slice of total body ¹⁸FDG PET/CT scan.

COURSE 3 – Image Theory, Perception and Processing (1 day)

Formal mathematics of medical imaging; Perception and interpretation of medical images; Image processing and display techniques.

Course Organiser: Dr E Castellano, Tel: 020 7808 2514, e-mail: elly.castellano@rmh.nhs.uk

Course Administration: Tel: 020 8661 3075 email: Physecs@icr.ac.uk

COURSE 4 – Diagnostic Radiology and CT (3 days)

Review of the x-ray and CT imaging chains; Digital Image receptors; Multislice CT design and performance; PACS; Quality control; System optimisation in clinical practice; Advances in x-ray and CT imaging.

Course Organiser: Dr E Castellano, Tel: 020 7808 2514, e-mail: elly.castellano@rmh.nhs.uk

Course Administration, Tel: 020 8661 3075 email: Physecs@icr.ac.uk

COURSE 5 – Nuclear Medicine (4 days)

This will consist of four one day courses that may be attended separately or in any combination.

1. Radionuclides and radiation protection
2. Physics of gamma camera and SPECT imaging
3. Physics of PET/CT
4. Internal dosimetry for molecular radiotherapy.

Topics covered include radiopharmacy, basic and advanced physics of molecular imaging and clinical applications.

Course Organiser: Dr I Murray, Tel: 020 8661 3715, e-mail: iain.murray@icr.ac.uk

Course Administration, Tel: 020 8661 3075 email: Physecs@icr.ac.uk

VIRTUAL COURSES ONLY BEING RUN 2020/2021

For this academic year ALL Courses offered will be run virtually ONLY.

Upon completion of your registration and payment you will be sent a personal link to access the course and further information. *If relevant, a copy of Webb's Physics of Medical Imaging will be posted to you at the address provided on your registration form.*

Details of the courses may also be viewed on the Physics Department website:

http://www.icr.ac.uk/medical_imaging_course

We use personal information for the purposes of course administration – which includes management of your course registration, processing your payment, communication of course joining information, certificates, post course materials and feedback questionnaire. We also use your contact information to keep you informed of other courses we offer which may be of interest to you. For further information on how we use your personal information, please check our privacy policy at www.icr.ac.uk/legal/privacy or contact dataprotectionofficer@icr.ac.uk.