

Image-Guided Radiation Therapy (Online Module)

Would you like to increase your knowledge about modern radiation therapy (RT) methods? Are you looking for a practical module that fits your needs? IGRT is a practical module that neatly adds another string to your bow!

The module

The IGRT module is suitable for participants with a Bachelor's degree or higher who have some experience of image-guided RT. Potential participants are radiotherapy lab technicians, clinical technicians, trainee clinical physicists and other professionals working in RT departments or in industry.

- The subjects covered are as follows:
- the use of 'image fusion' software
- the principles of in-room image-guided radiation therapy (IGRT)
- the possibilities and limitations of the various in-room IGRT techniques
- multi-modality imaging.

Structure

The module is made up of face-to-face tutorials, self-study tasks and practical assignments. Interactive meetings, focused on practical situations, form an important part. Can now be followed online through distance learning!!!

One of the options is to follow the online version of this module. Separate online sessions have been scheduled for this purpose. Almost the entire module can be followed remotely. The final session will be held in Haarlem.

The module consists of:

- an introductory section aimed at learning about IGRT
- the hands-on course, with various practical exercises and demonstrations
- a discussion session focused on a comparison between the different IGRT methods using clinical case histories
- closing with a case study and a portfolio.

What will you learn?

After completing this module, you will be

able to:

- understand and apply the principles of multi-modality imaging in RT
- critically analyse the possibilities and limitations of image fusion software tools
- understand and apply the principles of IGRT, including the influence of technical, physical and clinical factors
- assess the significance of recent developments surrounding in-room IGRT systems
- contribute to further professionalising RT.

Result

After successful completion, you will receive a certificate from Inholland Academy.

The Image-Guided Radiation Therapy module is part of the Medical Imaging and Radiation Oncology Master's programme, which was officially accredited in March 2012 by the Accreditation Organisation of the Netherlands and Flanders (NVAO).

Furthermore, the programme is accredited by the Stichting Accreditatie Deskundigheidsbevorderende Activiteiten Paramedici (Foundation for accreditation of

activities to promote the expertise of paramedics [ADAP]) for 280 credits.

Lecturers

Clinical physicists, clinical technicians and radiotherapy lab technicians from various radiotherapy departments participate in this module as lecturers. The programme coordinator, Mirjam Soumokil, can be reached by email: Mirjam.Soumokil@inholland.nl.

Recomended literature

Image-Guided IMRT Concepts And Clinical Applications (2005) - T. Bortfeld - publisher Springer-Verlag Berlin and Heidelberg GmbH & Co. KG - 1st edition - ISBN13 97835402051.

Details

For this module, you need to be able to carry out practical assignments. You can follow this module as an option within the Medical Imaging/Radiation Oncology Master's programme. Inholland Academy also offers this module as a tailor-made course.

Contact

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Type	module
Level	post-graduate continuing professional / Master's level
Cost	€ 1.750
Studyload	280 credit hours of which 130 hours of workplace learning