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academy

# VMAT Treatment Planning Hybrid module (English)

Do you dare to learn? Enrol at Inholland Academy

# Acquire comprehensive knowledge and skills in the field of TP

During this six-month module, the participant will acquire comprehensive knowledge and skills in the field of Treatment Planning (TP) for Intensity-Modulated Radiation Therapy (IMRT), Volumetric Modulated Arc Therapy (VMAT), and Stereotactic Ablative Radiotherapy (SABR). Interactive teaching sessions, focused on situations encountered in clinical practice, are an important component of the course.

## Curriculum

In the first part of the module, the student performs four treatment planning exercises. In addition, participants are also required to work on a detailed case study, which forms part of the course assessment. During the online group sessions, participants present the results of their (treatment planning) tasks and each presentation is followed by a discussion period.

In the second part of the module, the skills of the participants are deepened by five patient cases that are definitely more complex: for instance more dose levels, hypo-fractionated dose schemes. In this second part, the participants are challenged to explore the potential of their treatment planning systems. Apart from the case specific meetings there will be vendor specific meetings scheduled. During the second part participants complete their case study paper and the second part of the assessment, a portfolio of all the performed tasks and some clinical work.

The meetings are organized in an hybrid form. So, the participants can join physically or remotely using Microsoft Teams.

### Organizers and teachers

The module is organized by the Inholland University of Applied Sciences in corporation with it's research group Medical Technology. The module directors are Ingrid Kuijper, Emmy Lamers, Nuno Rodrigues, and Jelle Scheurleer. The teaching faculty consists of radiation oncologists, medical physicists, and radiation therapy technologists from various centers in The Netherlands.

## Result

After successful completion of the module you will receive a certificate of Inholland Academy. This course can be used as an elective module in the masters' programme Medical Imaging Radiation Oncology.

## Enrolment conditions

The module is suitable for those with a bachelor's degree or higher who have some experience in IMRT treatment planning and who want to expand their knowledge and skills. Potential participants include radiation therapy technologists (RTTs), medical physicists and radiation oncologists, including those in training, and medical engineers working in RT departments.

# Practical information

## Start

Online, please contact [gsw.academy@inholland.nl](mailto:gsw.academy@inholland.nl) for further details

## Language

English

## Duration

6 months

## Study effort

280 hours (10 ECTS)

## Investment

€ 2.585

## Level

postgraduate/master EQF level 7

## Certificate

certificate Inholland Academy



## Testimonial participant Alex Vanchugov

“I had experience in planning radiation therapy since 2014 when I graduated from university and started working as a medical physicist in the Radiotherapy department of Oncology Center. We had IMRT and VMAT techniques since 2015 when I went to Varian courses. Therefore, initially, I had a quite good experience and knowledge in planning modulated techniques.

The lung cancer planning competition held in Russia showed me that I still had a lot to learn regarding treatment planning. I participated in the VMAT online course at Inholland University of Applied Science in 2020-2021 and this course was very helpful. I have gained huge experience in treatment planning. I especially enjoyed making plans and completing tasks that must be completed by unfamiliar methods. We usually do it differently in Russia, so it was interesting to try something new. I want to express special gratitude to the course-director and to experienced lecturers, who are very patient with each of the students, even if the student has a language barrier and feels uncomfortable in expressing himself in English. They actively participate in sessions, discussions, and are willing to solve any problem. They inspire and motivate the participants to further develop their skills and

knowledge. It was a great experience! The gained skills will always be useful and will contribute to future professional development and work.”

*Alex Vanchugov*

*engineer, medical physicist*

*Federal Scientific Clinical Centre for Medical Radiology of the FMBA of Russia*



#### **Testimonial participant Ebison Chinherende**

“In July 2016 I enrolled in The InHolland Academy VMAT Treatment planning online course. I successfully completed the course in February 2017. The course provided me with profound knowledge and skills in the field of state of the art Radiotherapy Treatment planning. The support available from course directors, in the form of feedback and resources, makes the course interesting and worth exploring. The most interesting part of this course is you are taught to optimize VMAT plans not only on your primary planning systems but other planning systems as well, through the Hands-On VMAT treatment planning module. My primary planning system is Monaco but through this course I managed and I am now comfortable to produce VMAT plans on other radiotherapy planning systems that include RayStation, Eclipse, and Pinnacle.

The Hands-on VMAT Treatment planning Certificate in addition to other CPD activities I completed made it possible for me to be approved to sit for an MDCB Exam in February 2017. I was the only international candidate accepted to sit for the MDCB exam. The knowledge (in particular the lectures and the lecture notes that were provided during the course) and skills I gained from the VMAT Treatment Planning course contributed significantly to my successfully passing the MDCB Exam on the first attempt. I am now a proud Certified Medical Dosimetrist (CMD) thanks to VMAT Treatment planning course of Inholland University.

My professional background in the field radiation oncology dates to 2009 when I attained an undergraduate degree in Radiation Therapy at the University of Zimbabwe. Thereafter I worked as a radiation therapist in Zimbabwe, the Bahamas and presently, on the Island of Antigua, at The Cancer Centre Eastern Caribbean. I am full CMD member of the American Association of Medical Dosimetrist (AAMD). In November 2017 I will be graduating with an MSc in Radiotherapy and Oncology from Sheffield Hallam University (UK). In addition, I am enrolled in an MBA Programme at the University of South Wales, in the United Kingdom. Tentative completion date is September 2019.”

*Ebison Chinherende*

*RT, Cert VMAT TP, CMD*



### Testimonial participant Orges Spahiu

"I am the Head of Radiation Therapy Unit of the Oncology Service in Albania and a fellow of the Masterclass "VMAT TP Course Spring 2021" of Inholland University of Applied Sciences, January 2021 – June 2021. It was a pleasure to me that the International Atomic Energy Agency (IAEA) gave me the opportunity to follow this excellent course, with the aim to update my knowledge and skills on advanced Radiation Treatment Planning techniques IMRT and VMAT.

Pursuing the pathway of this course was an exceptional learning experience which I'd qualify very effective for the capacity building of Radiation Therapy Team Members as ROs and Medical Physicists. I particularly appreciated the learning approach which through the realization of concrete treatment plans gave the students the opportunity to understand his/her weakness and to improve them. I'd strongly recommend the VMAT TP Course to Physicists, RTTs, and Radiation Oncologists, it is a great opportunity to update knowledge and acquire the necessary know-how for treatment planning with the advanced techniques.

A special appreciation goes for the course director and team of lecturers who enabled the existence of such opportunity and ensured the transmission of know-how to the participants of the course with passion, patience, and dedication. Thank You!"

*Dr. Orges Spahiu*  
*Head of Radiation Therapy Unit*  
*Oncology Service*  
*University Hospital Center "Mother Teresa"*

## Why choose Inholland Academy?



Students give our programmes a score of 8.2. Our customised courses are rated at 8.3.



Expand your network by meeting other students and exchanging experiences.



Inholland Academy provides certified degree programmes and our entire offer is CEDEO recognised.



We are easily accessible, with 10 locations to choose from.



Our lecturers are engaged and enthusiastic specialists from the professional field.



We also offer customised degree programmes, which are available both in-company and at our various locations.

## Do you dare to learn? Enrol at Inholland Academy

Broaden your knowledge. Discover hidden talents. Take a critical look at your field and its future. Meet inspiring people. Work differently, with more self-confidence, energy and expertise. That is what learning can do for you.

### Learning takes courage

Do you dare to learn, even though you already have lots of work experience? Today's labour market is in need of versatile professionals. After all, having a job for life is no longer an option. Inholland Academy can help you to keep moving, learning, trying and experimenting – and perhaps even change some old habits. This way, you can keep your personal development on par with developments in your field. Daunting? Yes. That is, until you have crossed the threshold.

### We get to know you personally

Inholland Academy treats you as a professional, but above all as a person. We understand that you need to change gears when you go straight from a busy working day to a lesson, and that you sometimes need to pay more attention to your family than to an assignment. Our lecturers and student advisers will help you to complete your degree programme as successfully as possible. They will lend a hand if you have any problems or doubts, but they will also support you if you are bursting with potential and want to spread your wings. They do this with a caring and positive attitude, because they love their job.

### Quality through teamwork

Professional fields change quickly, which is why our curricula are not set in stone. The course materials are up to date and tie in perfectly with the future demands you will face at work. Inholland Academy offers a wide range of certified post-HBO programmes. We are also expanding this offer, so that we can continue to respond to new developments. We achieve quality through collaboration with specialists from the professional field, research groups from Inholland University of Applied Sciences and other knowledge partners.

**Any questions? Please feel free to contact me!**

Jelle Scheurleer  
course director

**Ask Jelle**

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