

## Course 1

### Commissioning and Quality Assurance in RT: from 3DCRT to VMAT and IGRT

Lecturer: Milàn Tomsej, Head of Medical Physics - CHU Charleroi

Date: April 7-8, 2017

### Final Program and Schedule

#### Day 1 (Friday April 7<sup>th</sup>, 2017) – Room 51A (Edifício Egas Moniz):

- 8:15 am: Welcome
- 8:30 am-8:45 am: Introduction of the course
- 8:45 am-9:30 am: Modern Radiotherapy equipment including new technologies
- 9:30 am-10:15 am: Commissioning and Quality assurance of RT equipment

#### Coffee Break

- 11:00 am-12:00 pm: Treatment planning: modern dose calculation algorithms
- 12:00 pm-12:45 pm: From 3D-CRT to IMRT/VMAT treatment planning:  
implementation of ICRU83 in the clinic

#### Lunch Break

- 2:00 pm-3:00 pm: Physics and implementation of IMRT/VMAT
- 3:15 pm-4:00 pm: Quality assurance of advanced delivery systems

#### Coffee Break

- 4:30 pm-5:15 pm: Imaging systems used in Radiotherapy, IGRT
- 5:15 pm-5:30 pm: wrap up of the day

#### Day 2 (Saturday April 8<sup>th</sup>, 2017) – Hospital Santa Maria Radiotherapy Service:

- 9:00 am-10:00 am, Library: Quality management – importance of clinical audits
- 10:00 am-12:30 pm, Treatment planning room: hands-on TPS (clinical cases)

#### Lunch Break

- 1:30 pm-4:30, Linac bunker: hands-on QA
- 4:30-5:00, Library: wrap up of the day