PHYSICS FOR MODERN RADIOTherAPY
14 - 18 June 2015 | Ljubljana, Slovenia

COURSE DIRECTOR
Ben Heijmen (NL)

TEACHERS
Vibeke Hansen (UK)
Ann Henry (UK)
Trine Juhr-Nøttrup (DK)
Silvia Molinell (IT)
Stéphanie Peeters (BE)
Luis A. Pérez-Romasanta (ES)
Milan Tomsej (BE)

LOCAL ORGANISER
Barbara Šegedin

PROJECT MANAGER
Laura La Porta

TARGET GROUP
The course is primarily aimed at trainees in radiation oncology or radiation physics, and at radiation oncologists and medical physicists early in their career. The course may also be useful for clinicians and physicists that are eager to update their knowledge on physics and technical aspects of radiotherapy after a period of relative lack of access to education on modern technology and techniques. The course is also suited for dosimetrists and radiation therapists (RTTs) having a strong interest in the application of physics and technology in radiotherapy. For PhD students in radiation therapy or physics, this course can broaden their knowledge. As the focus is on clinical application, the teachers’ team consists of both radiation oncologists (50%) and medical physicists (50%).

COURSE AIM
For the lectures, the aims are:
• to provide physics knowledge relevant to clinical radiotherapy
• to provide comprehensive overviews of imaging and volume concepts in radiotherapy
• to discuss modern dose delivery techniques, such as IMRT, stereotactic treatment, rotational therapy, IGRT, and brachytherapy
• to discuss safety issues in lectures on commissioning and QA/QC, radiation protection, in-vivo dosimetry, and induction of secondary tumors.

Complimentary to the lectures, this course has clinical case discussions as an important component, discussing planning homework submitted by the participants (see below for details) regarding selected treatment techniques, planning solutions and constraints and objectives, choice of margins, protocols for image guidance, QA, etc.

LEARNING OUTCOMES
By the end of this course participants should be able to:
• apply, together with the treatment team at home, modern physics principles and techniques in clinical practice
• select modern treatment techniques based on their pro’s and cons
• select physics and technical measures that enhance accurate and safe application of radiation therapy.

Specific for physicists:
• Reference and non-reference dosimetry
• Modern dose calculation algorithms
• QA for advanced delivery techniques
• Oncologic concepts.

II. Clinical case discussions

PREREQUISITES
Before commencing this course:
• The participants are invited to prepare treatment plans for selected clinical cases (homework), based on case descriptions and CT scans as provided prior to the course. During the course, the plans are discussed in small groups, guided by a clinician and physicist teacher.

TEACHING METHODS
• 20 hours of plenary lectures
• 4 hours of lectures targeted at clinicians
• 4 hours of lectures targeted at physicists
• 6 hours of clinical case discussions in small groups
• 1 hour session for individual discussions between participants and faculty members, potentially covering all kinds of issues related to physics and technology in clinical radiotherapy as brought up by attendants.

METHODS OF ASSESSMENT
• Entry and Exit Exam
• Evaluation form

KEY WORDS
Physics in radiotherapy, modern treatment techniques.

WORKING SCHEDULE
The course starts on Sunday 14 June 2015 at 08:30 and ends on Thursday 18 June 2015 at 12:30.
To be able to start on time, participants are encouraged to register on Saturday from 18h00 to 19h00.

LANGUAGE
The course is conducted in English. No simultaneous translation will be provided.
PRACTICAL ORGANISATION

COURSE ORGANISATION
For any further information please contact ESTRO:
Laura La Porta
E-mail: llaporta@estro.org
Tel : +32 2 761 06 54
Fax : +32 2 779 54 94

COURSE VENUE
Hotel Lev
Vošnjakova 1, 1000 Ljubljana, Slovenija
Tel: +386 1 308 7431
Fax: +386 1 308 7440
www.union-hotels.eu

LOCAL ORGANISER
Barbara Šegedin
Institute of Oncology
Ljubljana
bsegedin@onko-i.si

TECHNICAL EXHIBITION
Companies interested in exhibition opportunities during this teaching course should contact ESTRO:
Laura La Porta
E-mail: llaporta@estro.org
Tel : +32 2 761 06 54
Fax : +32 2 779 54 94

ACCOMMODATION
To book you room, please download the accommodation form from the ESTRO website: www.estro.org/school

PARTICIPANTS SHOULD REGISTER ONLINE AT:
WWW.ESTRO.ORG/SCHOOL

These pages offer the guarantee of secured online payments. The system will seamlessly redirect you to the secured website of OGONE (see www.ogone.be for more details) to settle your registration fee.

If online registration is not possible please contact us:
ESTRO OFFICE
Rue Martin V, 40 • B-1200 Brussels
Tel.: +32 2 775 93 39 • Fax: +32 2 779 54 94
E-mail: education@estro.org

REGISTRATION FEES
Please check the early deadline date on our website

<table>
<thead>
<tr>
<th></th>
<th>EARLY FEE</th>
<th>LATE FEE</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-training members*</td>
<td>450 €</td>
<td>625 €</td>
</tr>
<tr>
<td>Members</td>
<td>600 €</td>
<td>725 €</td>
</tr>
<tr>
<td>Non members</td>
<td>750 €</td>
<td>850 €</td>
</tr>
</tbody>
</table>

*Radiation Therapist (RTT) members are eligible for the in-training fee

The fee includes the course material, coffees, lunches, and the social event.

Reduced fees are available for ESTRO members working in economically less competitive countries. Check the eligible countries and the selection criteria on the website of the ESTRO School.

ESTRO goes green: Please note that the course material will be available online. No course book will be provided during the courses.

ADVANCE REGISTRATION AND PAYMENT ARE REQUIRED. ON-SITE REGISTRATION WILL NOT BE AVAILABLE.
Since the number of participants is limited, late registrants are advised to contact the ESTRO office before payment, to inquire about availability of places. Access to homework and/or course material will become available upon receipt of full payment.

INSURANCE AND CANCELLATION
The organiser does not accept liability for individual medical, travel or personal insurance. Participants are strongly advised to take out their own personal insurance policies.

In case an unforeseen event would force ESTRO to cancel the meeting, the Society will reimburse the full registration fees to the participants, ESTRO ESTRO will not be responsible for the refund of travel and accommodation costs.

In case of cancellation, full refund of the registration fee minus 15% for administrative costs may be obtained up to three months before the course and 50% of the fee up to one month before the course. No refund will be made if the cancellation request is postmarked less than one month before the start of the course.