

Course Title	Radiotherapy, IMRT Treatment Planning skills and theory
Term	Term 3
Inholland Faculty	Faculty of Health, Sports & Social Work
Course code	Erasmus Radiotherapy (ERG)
Inholland location	Haarlem
Cycle	first cycle / undergraduate / Bachelor level
Number of ECTS	20
Language of instruction	English
Course content	<ul style="list-style-type: none"> • Radiotherapy physics • Radiobiology in practice • Image recognition • Treatment Planning 3D to IMRT • IGRT • Essay special techniques • Practics in Treatment Planning, from 3D conformal Radiotherapy to IMRT of breast, pelvic and head and neck region • Practics in Radiotherapy Physics • Practics in IGRT techniques • Clinical outplacement (2–4 days)
Lecturer(s)	Coordinator RT: Mirjam Soumokil - de Bree (mirjam.soumokil@inholland.nl)
Learning outcomes	<ul style="list-style-type: none"> • To develop skills in producing an optimal 3 dimensional and IMRT dose distribution of breast, pelvic and head and neck region • To develop skills in Radiotherapy Physics treatment planning • To develop skills integrating Radiobiology in treatment planning. • To evaluate the products as well as the process of preparation the treatment of these patients. • To develop skills in IGRT techniques. • Further develop communicative and co-operative skills. • Have insight into the role of the Radiotherapy-technician in relation to the organization of a Radiotherapy department in the Netherlands. • Be able to produce an optimal 3 D dose distribution. • Be able to produce an IMRT dose distribution • Be able to argue the choices you made. • Be able to reflect on your products and your process.

<p>Mode of delivery, planned activities and teaching methods</p>	<p>The following learning methods will be used which requires participation in:</p> <ul style="list-style-type: none"> • Group meetings • Lectures • Skills training using with and without lecturer • Individual study • Project and report writing in English • Oral presentations of the report in English • Skillslab training <p>Practical training on Radiotherapy equipment in the skillslab on CMS treatment planning system and Theraview IGRT system</p> <ul style="list-style-type: none"> • Clinical outplacement (max. 2 – 4 days) <p>Each student will complete a clinical placement, excursions and 10 weeks of practical placement in skills lab, including general Radiotherapy</p>
<p>Prerequisites and co-requisites (if applicable)</p>	<p>Prior practical and theoretical experience with RT is necessary to complete the course.</p> <p>This course is only available for radiation therapy students (and radiology students under restrictions) from institutes which are member of the Erasmus Radiography Group (ERG). Application only through ERG-coordinator of home-institute.</p>
<p>Recommended or required reading and/or other learning resources/tools</p>	<ul style="list-style-type: none"> • Study guide Radiotherapy • Literature in the library Inholland University of Applied Sciences Haarlem
<p>Assessment methods and criteria</p>	<ul style="list-style-type: none"> • Attending to mandatory classes with a satisfactory contribution • Practical examination by marked tasks • Produce an optimal 3 dimensional and IMRT isodose distribution • Evaluate all stages of / in the procedures • Clinical placement • Poster and presentation • Practical exam