

Faculty: Health, Sports and Social Work
 Programme: Medical Imaging and Radiotherapy
 Location: Haarlem

Course code	Course title and description	ECTS	Term	Prerequisites	Extra info
	<i>Erasmus Radiotherapy</i>	20	3 (Jan – March)	<i>advanced experience in treatment planning</i>	Erasmus Radiography Group

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/visit (2–4 days in total)
Teaching methods	<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 in total) <p>Each student will complete a clinical placement, excursions and 10 weeks of practical classes in skills lab, including general Radiotherapy</p>
Level of course	Bachelor year 3 – 4 (with practical and theoretical experience with RT)
Assessment methods	<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 <p>All items will be assessed and have to be passed</p>
Contact person	Mirjam Soumokil - de Bree, email: mirjam.soumokil@inholland.nl 0031- (0)631006629

Prerequisites	Student needs to have basic to intermediate knowledge of treatment planning and has trained skills in radiotherapy.
Objective of the course	<p>Objectives</p> <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. • Has insight into the role of the Radiotherapy-technician in relation to the organization of a Radiotherapy department in the Netherlands. <p>Learning outcomes</p> <ul style="list-style-type: none"> • 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.
Special remarks	<p>Prior practical and theoretical experience with RT is necessary to complete the course.</p> <p>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>
Recommended reading	<p>Handed out:</p> <ul style="list-style-type: none"> • Study guide Radiotherapy • Literature in the library Inholland University of Applied Sciences Haarlem