

Course Title	Ultrasound
Term	Term 3
Inholland Faculty	Faculty of Health, Sports & Social Work
Course code	Erasmus Ultrasound (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"> <li>• basic scanning skills</li> <li>• ultrasound examination upper abdomen</li> <li>• duplex carotid arteries</li> <li>• topographic anatomy</li> <li>• image recognition</li> <li>• sonographic appearance common pathology</li> <li>• ultrasound physics</li> </ul>
Lecturer(s)	Coordinator: Geert Plug (geert.plug@inholland.nl)
Learning outcomes	<p>Have understanding of the normal anatomy and physiology of the organs and vascular system in the upper abdomen</p> <ul style="list-style-type: none"> <li>• develop scanning skills in order to evaluate organs and vascular system in the upper abdomen by ultrasound and produce images of these</li> <li>• be able to perform a basic ultrasound-examination in a given case</li> <li>• recognize abnormal appearance of the organs and vascular system in the upper abdomen</li> <li>• have understanding of pathologic processes and their ultrasound appearances</li> <li>• apply knowledge of ultrasound physics in practical examination</li> <li>• further develop communicative en co-operative skills</li> <li>• have insight into the role of the ultrasound-technician in relation to general medical imaging</li> </ul>
Mode of delivery, planned activities and teaching methods	<p>Problem based learning (PBL) which requires participation in:</p> <ul style="list-style-type: none"> <li>• group meetings with problem tasks</li> <li>• lectures</li> <li>• role-play exercises and demonstrations</li> <li>• individual study</li> </ul>

	<ul style="list-style-type: none"> <li>• project and report writing in English</li> <li>• oral presentations of the report in English</li> </ul> <p>Skills lab training</p> <ul style="list-style-type: none"> <li>• practical training on ultrasound equipment in the skills lab</li> </ul> <p>Clinical outplacement (1 week max.)</p> <ul style="list-style-type: none"> <li>• attending to ultrasound examinations</li> <li>• performing basic examinations in radiology</li> </ul>
<p>Prerequisites and co-requisites (if applicable)</p>	<p>Course is only available for radiology students and radiation therapy students 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>	<p>Books / reader available at host institution.</p>
<p>Assessment methods and criteria</p>	<p>attending to mandatory classes</p> <ul style="list-style-type: none"> <li>• all assignments are handed in</li> <li>• presentations</li> <li>• clinical placement</li> <li>• practical and theoretical (anatomy, physics, pathology) exams</li> <li>• portfolio assessment</li> </ul> <p>All items will be assessed and have to be passed.</p>