

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"> • basic scanning skills • ultrasound examination upper abdomen • duplex carotid arteries • topographic anatomy • image recognition • sonographic appearance common pathology • ultrasound physics
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"> • develop scanning skills in order to evaluate organs and vascular system in the upper abdomen by ultrasound and produce images of these • be able to perform a basic ultrasound-examination in a given case • recognize abnormal appearance of the organs and vascular system in the upper abdomen • have understanding of pathologic processes and their ultrasound appearances • apply knowledge of ultrasound physics in practical examination • further develop communicative en co-operative skills • have insight into the role of the ultrasound-technician in relation to general medical imaging
Mode of delivery, planned activities and teaching methods	<p>Problem based learning (PBL) which requires participation in:</p> <ul style="list-style-type: none"> • group meetings with problem tasks • lectures • role-play exercises and demonstrations • individual study

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