Course Specifications
Valid as from the academic year 2017-2018

Problem-solving Ability and Skills in Radiology, Part 1 (D002636)

Course size
(nominal values; actual values may depend on programme)
Credits 15.0 Study time 375 h Contact hrs 185.0 h

Course offerings and teaching methods in academic year 2019-2020
A (year) Dutch work placement 120.0 h
self-reliant study activities 15.0 h
seminar 15.0 h
clinic 35.0 h

Lecturers in academic year 2019-2020
Verstraete, Koenraad GE32 lecturer-in-charge
Achten, Eric GE32 co-lecturer
Deblaere, Karel GE32 co-lecturer
Defreyne, Luc GE32 co-lecturer
JANS, LENNART GE32 co-lecturer
Van De Wiele, Christophe GE32 co-lecturer

Offered in the following programmes in 2019-2020 crdts offering
Master of Medicine in Specialist Medicine (main subject Radiology) 15 A

Teaching languages
Dutch

Keywords
Radiology, radiotherapy, radioscopy, CT-scan, ultrasound, Magnetic Resonance imaging, positron-emission tomography, medical imaging, angiography, interventional radiology, problem solving

Position of the course

Contents
1. Contents “Case Study”:
   Cases are presented and discussed in (an interdisciplinary) team and attention is payed to urgencies and diagnostic problems. The content that will be dealt with, is related to the learning outcomes.
2. Contents “Patient Care and Medical-Technical Skills”:
   During residency, the trainee gets the opportunity to exercise a broad number of fields within the speciality. During residency, the trainee gains specific knowledge and skills and applies them in practice.

Initial competences
The course builds on certain learning outcomes of the study programme leading to the academic degree "Master of Medicine (in Medicine)" (or "Physician" or "Doctor of Medicine, Surgery and Obstetrics").

Final competences
1. Managing independently, making diagnosis and initiating treatment of the most frequent syndromes / disorders and / or situations in clinical practice.
2. Learning and developing necessary technical skills.
3. Applying general scientific knowledge and methodology in the field of the speciality (scientific attitude of patient care).
4. Reflecting critically on own knowledge and skills and adjusting if necessary.

(Approved)
5 Working as a beginning trainee under supervision.
6 Working independently and responsibly on the urgency unit.
7 Judging correctly when a consult with a doctor of another discipline is necessary.
8 Working and communicating within a multidisciplinary team.
9 Having insight in the influence of own performance on the functioning of the department.

Conditions for credit contract
Access to this course unit via a credit contract is determined after successful competences assessment.

Conditions for exam contract
This course unit cannot be taken via an exam contract.

Teaching methods
Clinic, work placement, seminar, self-reliant study activities.

Learning materials and price
- Patient files
- Radiological journals (Radiology, European Radiology, European Journal of Radiology, American Journal of Radiology, Clinical Radiology, ...)
- Manuals of radiological equipment
- Interuniversitary postgraduate Education
- Recommended books:
  - Radiologische atlas deel 3: abdominale beeldvorming
    Vanbeckevoort D.
  - Gastrointestinal radiology: a pattern approach 4/e
    Eisenberg R.L.
    Lippincott Williams & Wilkins 2002
    isbn 0.7817.3706.0
  - Imaging of diseases of the chest 4/e
    Hansell D., Armstrong P., Lynch D., Mc Adams H.
    Mosby 2005
    isbn 0.3230.3660.0
  - Computed Tomography of the Lung: A pattern approach
    J.A. Verschakelen, W. De Wever
    Springer 2007
    isbn 10 3-540-26187-7
  - Genito-urinary radiology: the requisites
    2nd Edition
    Ronald J. Zagoria
    Elsevier Mosby 2004
  - Bone and joint imaging 3/e
    Resnick D.
    W.B. Saunders Company 2005
    isbn 0.7216.0270.3
  - Requesites, Musculoskeletal imaging, sec ed.,
    BJ Manaster,
    Mosby 2002
  - Fundamentals, skeletal radiology, sec ed.
    Clyde A Helms,
    W.B. Saunders, 1995
  - Fundamentals of pediatric radiology
    Donnelly L.F.
    W.B. Saunders Company 2001
    isbn 0.7216.9061.0
  - Abdominal and general ultrasound 2/e
    Meire D.
    Churchill Livingstone 2001
    isbn 0443061521
  - Neuroradiology companion 3/e
    Castillo M.
    Lippincott Williams & Wilkins 2006
    isbn 0-7817-7949-90
  - Imaging in Trauma and Critical Care, 2nd ed
    Stuart E. Mirvis
    Saunders 2003
    isbn 0.7216.9340.7
  - Principles of radiological physics 4/e

(Approved)
References

Course content-related study coaching
- Consultation of lecturer (appointment or via email)

Evaluation methods
- end-of-term evaluation and continuous assessment

Examination methods in case of periodic evaluation during the first examination period
- Skills test

Examination methods in case of periodic evaluation during the second examination period
- Skills test

Examination methods in case of permanent evaluation
- Portfolio, skills test, job performance assessment

Possibilities of retake in case of permanent evaluation
- examination during the second examination period is possible

Extra information on the examination methods
- The continuous evaluation includes: evaluation of the residency using evaluation forms, planning, performance and evaluation reports in Medbook.
- If a trainee does not have the required number of evaluation forms, planning, performance and evaluation reports, the trainee can not be evaluated for this course.
- The periodic evaluation consists of a final formal clinical evaluation.
- The examination is part of the assessment of the part: "Advances in radiology, part 1"

Calculation of the examination mark
- A pass / fail result is given.