Course Specifications
Valid as from the academic year 2018-2019

Problem-solving Ability in Radiology, Part 2 (D012928)

Course size (nominal values; actual values may depend on programme)
Credits 25.0 Study time 625 h Contact hrs 300.0 h

Course offerings and teaching methods in academic year 2019-2020

Lecturers in academic year 2019-2020
- Verstraete, Koenraad GE16 lecturer-in-charge
- Achten, Eric GE16 co-lecturer
- Deblaere, Karel GE16 co-lecturer
- Defreyne, Luc GE16 co-lecturer
- JANS, LENNART GE16 co-lecturer
- Villeirs, Geert GE16 co-lecturer

Offered in the following programmes in 2019-2020

<table>
<thead>
<tr>
<th>Programme</th>
<th>Crdts</th>
<th>Offering</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Medicine in Specialist Medicine (main subject Radiology)</td>
<td>25</td>
<td>A</td>
</tr>
</tbody>
</table>

Teaching languages

Keywords
- Radiology, radiography, 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. The trainee functions with enhanced independancy and complexity that is evidence based.

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 with enhanced complexity and applies them in practice with enhanced independancy.

Fields of knowledge...

Fields of skills...

Initial competences


Having successfully completed the course “Problem-solving ability and skills in radiology, part 1”

Final competences
1. Delivering ethically and economically responsible patient care in more complex situations, diseases /disorders within the specialty.

2. Applying acquired scientific knowledge and methodology in ever more complex disorders / techniques within the specialty.

3. Working more and more independently.


(Approved)
5. Learning and applying complex technical skills.
6. Working and communicating within a multidisciplinary and interdisciplinary team.
7. Reflecting critically on own knowledge and skills and adjusting if necessary.
8. Organizing and paying attention to the continuity of care for the patient.
9. Functioning as an expert for external advice (for family doctors and specialists) by the acquired expertise.
10. Working on the enhancement of patient care within the hospital.
11. Contributing to the improvement of the performance and efficiency of a 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
- Recommended books:
  - Radiologische atlas deel 3: abdominale beeldvorming Vanbeekevoort D. Helicon 2002
  - 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
  - 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 Graham D. Churchill Livingstone 2003 isbn 0.4430.7073.3

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
Written examination with open questions, oral examination, portfolio

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

Examination methods in case of permanent evaluation
Portfolio, 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,
The final evaluation takes place at the end of the training. A pass / fail result is given.

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.

Calculation of the examination mark

The final evaluation takes place at the end of the training. A pass / fail result is given.