1. **Fundamentals of oncology and radiotherapy**  
**Recommended literature:**  
- Ruddon RW, Cancer Biology, Oxford University Press, 2007  

2. **Overview of radiation physics**  
**Recommended literature:**  

3. **External beam radiotherapy**  
**Mandatory literature:**  
- Quality assurance of 3-D treatment planning systems for external photon and electron beams; Practical guidelines for acceptance testing, commissioning and periodic quality control of radiation therapy treatment planning systems. NCS Report 15, 2006.

**Recommended literature:**  
• Geometrical Uncertainties in Radiotherapy. British Institute of Radiology, 2003


• Magnetic Resonance Imaging in Radiation Oncology, Seminars in Radiation Oncology, Vol 24 (3), July 2014


• Korreman S. et al. The European Society of Therapeutic Radiology and Oncology-European Institute of Radiotherapy (ESTRO-EIR) report on 3D CT-based in-room image guidance systems: a practical and technical review and guide. Radiother Oncol. 2010; 94(2):129-44.


• Dutch mouldroom technologists (NMT) website at http://www.mouldned.nl


• Kahn FM. Treatment planning in radiation oncology. Lippincott Williams & Wilkins 2007.


• Hogstrom KR. Treatment planning in electron beam therapy. In: Frontiers of radiation therapy and oncology. 25.


• S.Das. A role for biological optimization within the current treatment planning paradigm.. Med Phys. 2009 Oct;36(10): 4672-82.


• C.W. Hurkmans, P. Remeijer, J.V. Lebesque, B.J. Mijnheer. Set-up verification using portal imaging; review of current clinical practice, Radiotherapy and Oncology 58 (2001), 105-120.

AAPM report 104: The role of In-Room kV X-Ray Imaging.


4. **Brachytherapy**

**Mandatory literature:**


**Recommended literature:**


5. Dosimetry

Mandatory literature:


Recommended literature:

- ICRU Report 34 and 35.
- ESTRO booklet no. 5. Practical guidelines for the implementation of In Vivo Dosimetry with diodes in External Radiotherapy with photon beams (Entrance Dose). Huyskens DP et al. 2001.

6. Particle therapy

Recommended literature:

- H. Paganetti, Proton therapy physics, Series in Medical Physics and Biomedical Engineering.

8. Radiobiology and Radiobiological modelling

Mandatory literature:

Recommended literature:


9. Miscellaneous

Mandatory literature: