Introduction to Medical Physics

2 CFU

Teaching staff

Name Surname: Cirrone pablo

Email: pablo.cirrone@lns.infn.it

Office: +39 392 4065911

Reception hours: please, contact me by e-mail at any time

Program of the course:

1. Basic concepts in radiation dosimetry
   a. Quantities for describing the interaction of ionizing radiation with matter
   b. Charged-particle and radiation equilibria
2. The cavity theory
3. Dosimetry fundamentals
   a. Concepts of radiation dosimetry and dosimeter
   b. Interpretation of a dosimetric measure
   c. General characteristics of a dosimeter
4. The role of the ionization chamber in radiation dosimetry and its calibration protocols for clinical applications
5. Basis of detectors for dosimetry and microdosimetry

Bibliography:

F H Attix, Introduction to radiological physics and radiation dosimetry