

**Cycle view of the study programme**

B1 Or Th Pr Au Cr

**Compulsory courses (B1 : 7Cr)**

MCER0245-1 *Basis of radiotherapy* - Philippe COUCKE B1 25 - - 4

- Basics of medical physics (including dose distributions)
- Basics of Biology of cancer
- Basics of cancers
- Conduct a simulation
- Simulation run
- Course of treatment
- Equipment and simple treatment techniques (simulator, low energy, linear accelerator, cobalt therapy, brachytherapy)
- Quality and safety management in oncology (including ISO and EFQM approaches)
- Interest of dosimetry in vivo
- Techniques of complex treatments : IMRT, VMAT, stereotactic

MCER0246-1 *Pathology* - Pascal PIRET B1 20 - - 3

- Detailed description of the treatment of cancer diseases by location (gastrointestinal, breast, lung, brain, urogenital, gynecological, ENT, blood) including complex radiotherapy treatments

**Optional courses (B1 : 3Cr)**

**Choose one option from the following : (B1 : 3Cr)**

**Option "DOSIMETRY" (B1 : 3Cr)**

MCER0247-1 *Dosimetrists* - Véronique BAART B1 20 - - 3

- Information for achieving dosimetries
- Practical module on the use of IT tools
- Introduction to the dosimetry of complex treatment

**Option "NURSING IN RADIOTHERAPY" (B1 : 3Cr)**

MCER0248-1 *Technologists* - Nathalie FRENAY B1 15 - - 3

- Information allowing optimal management of patients in simulation and treatment
- Practical module on the use of computer interfaces (imaging, treatment, in vivo dosimetry, quality control, ...)