

A single year

Compulsory courses

MCER0250-2 *Radioprotection : Radiology* - Magali DEVILLERS 40 10 - 4

Compulsory courses

MCER2013-1 *Radioprotection : Radiotherapy* - Véronique BAART 50 10 - 5

Compulsory courses

MCER2014-1 *Radioprotection : Nuclear medicine* - Claire BERNARD 50 10 - 5

Compulsory courses

MCER0249-1 *Basis of oncology* - Guy JERUSALEM 20 - - 3

Compulsory courses

MCER0245-1 *Basis of radiotherapy* - Philippe COUCKE 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 simples 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 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

Choose one option from the following :

Option "DOSIMETRY"

MCER0247-1 *Dosimetrists* - Véronique BAART 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"

MCER0248-1 *Technologists* - Nathalie FRENAY 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, ...)

Optional modules

MCER0249-1 *Basis of oncology* - Guy JERUSALEM 20 - - 3

- Basis of oncology
- Treatments
- Cancer care
- Palliative care
- Psychology and communication with the patient
- Health economics
- Supportive cancer care

MCER0250-2 *Radioprotection : Radiology* - Magali DEVILLERS 40 10 - 4

- Physical bases

- Health effects of exposure to ionizing radiation
- Practical rules of radiation protection, including the legislation in radiation protection
- Radiation protection in exposures in radiology
- Quality assurance
- Applied techniques in radiology
- Placement

MCER2013-1 *Radioprotection : Radiotherapy* - Véronique BAART

50 10 - 5

- Physical bases
- Health effects of exposure to ionizing radiation
- Practical rules of radiation protection, including the legislation in radiation protection
- Radiation protection in exposure in radiotherapy
- Quality assurance
- Applied techniques in radiotherapy
- Work placement

MCER2014-1 *Radioprotection : Nuclear medicine* - Claire BERNARD

50 10 - 5

- Physical bases
- Health effects of exposure to ionizing radiation
- Practical rules of radiation protection, including the legislation in radiation radioprotection
- Radiation protection in medical exposures in nuclear medicine
- Quality assurance
- Applied techniques in nuclear medicine
- Work placement