

### Renseignements

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### Presentation

Over the last decade, radiotherapy has evolved towards a speciality, with the specialist known as a clinical oncologist with a particular qualification in radiotherapy. The multidisciplinary nature of the speciality requires advanced training in various domains. Theoretical knowledge in physics and radiobiology constitute the foundations of modern radiotherapy. At the same time, the biology of tumors must be taught prior to the acquisition of a clinical competence in the various methods of treating cancer.

A une formation de base (radiophysique, radiobiologie, radioprotection, biologie du cancer, principes thérapeutiques, législation) s'ajoute une formation supérieure intéressant l'oncologie générale (épidémiologie, prévention, dépistage, anatomo-pathologie, sémiologie, méthodes diagnostiques, stadification, facteurs pronostiques, résultats thérapeutiques), les principes généraux du traitement (oncologie chirurgicale et médicale, soins palliatifs, aspects psycho-sociaux), le traitement par les radiations ionisantes (modalités pratiques en fonction de la maladie, physique appliquée et planification dosimétrique, aspects techniques de la curiethérapie, imagerie, contrôle de qualité), le traitement par les cytostatiques (indications générales et particulières, pharmacologie clinique appliquée, élaboration et prescription de protocoles thérapeutiques, surveillance et traitement des effets secondaires)

ainsi que la recherche en oncologie (évaluation des résultats, statistiques appliquées, participation à des essais thérapeutiques, recherche translationnelle).

### Duration of the training

\* Five years of study: two years of basic training (FUS) and three years of specialised training.

### Collegiality

Coordinateur : Philippe COUCKE  
Daniel GILLAIN, Chantal HUMBLET, Roland HUSTINX, Nicolas JANSEN, Véra PIRLET, Françoise MALCHAIR, Philippe MARTINIVE, Michel MEURISSE, Jean-Olivier DEFRAIGNE, Philippe GILLET, Guy JÉRUSALEM.

## First Year

### Compulsory courses

RAON0001-1	<i>Inter-university theory courses : Lessons from the Belgian Association of radiotherapy and oncology (ABRO) : Radiophysics, radiobiology, radioprotection, clinical oncology, radiation oncology, medical informatics, 1st year - COLLÉGIALITÉ</i>	40	-	-	15
RAON0002-1	<i>University theory courses and seminars : Radiophysics, radiobiology, radiation protection, clinical oncology, radiation oncology, medical informatics, 1st year - COLLÉGIALITÉ - [150h SEM]</i>	50	-	[+]	15
MSTG2015-1	<i>Placements, 1st year - COLLÉGIALITÉ - [11half-d Internship]</i>	-	-	[+]	30

## Second year

### Compulsory courses

RAON0001-2	<i>Inter-university theory courses : Lessons from the Belgian Association of radiotherapy and oncology (ABRO) : Radiophysics, radiobiology, radioprotection, clinical oncology, radiation oncology, medical informatics, 2nd year - COLLÉGIALITÉ</i>	40	-	-	15
RAON0002-2	<i>University theory courses and seminars : Radiophysics, radiobiology, radiation protection, clinical oncology, radiation oncology, medical informatics, 2nd year - COLLÉGIALITÉ - [150h SEM]</i>	50	-	[+]	15
MSTG2015-2	<i>Placements, 2nd year - COLLÉGIALITÉ - [11half-d Internship]</i>	-	-	[+]	30

## Third year

### Compulsory courses

RAON0001-3	<i>Inter-university theory courses : Lessons from the Belgian Association of</i>	40	-	-	15
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*radiotherapy and oncology (ABRO) : Radiophysics, radiobiology, radioprotection, clinical oncology, radiation oncology, medical informatics, 3rd year - COLLÉGIALITÉ*

RAON0002-3	<i>University theory courses and seminars : Radiophysics, radiobiology, radiation protection, clinical oncology, radiation oncology, medical informatics, 3rd year - COLLÉGIALITÉ - [150h SEM]</i>	50	-	[+]	<b>15</b>
MSTG2015-3	<i>Placements, 3rd year - COLLÉGIALITÉ - [11half-d Internship]</i>	-	-	[+]	<b>30</b>

#### Fourth year

##### Compulsory courses

RAON0001-4	<i>Inter-university theory courses : Lessons from the Belgian Association of radiotherapy and oncology (ABRO) : Radiophysics, radiobiology, radioprotection, clinical oncology, radiation oncology, medical informatics, 4th year - COLLÉGIALITÉ</i>	40	-	-	<b>15</b>
RAON0002-4	<i>University theory courses and seminars : Radiophysics, radiobiology, radiation protection, clinical oncology, radiation oncology, medical informatics, 4th year - COLLÉGIALITÉ - [150h SEM]</i>	50	-	[+]	<b>15</b>
MSTG2015-4	<i>Placements, 4th year - COLLÉGIALITÉ - [11half-d Internship]</i>	-	-	[+]	<b>30</b>

#### Fifth year

##### Compulsory courses

RAON0001-5	<i>Inter-university theory courses : Lessons from the Belgian Association of radiotherapy and oncology (ABRO) : Radiophysics, radiobiology, radioprotection, clinical oncology, radiation oncology, medical informatics, 5th year - COLLÉGIALITÉ</i>	40	-	-	<b>15</b>
RAON0002-5	<i>University theory courses and seminars : Radiophysics, radiobiology, radiation protection, clinical oncology, radiation oncology, medical informatics, 5th year - COLLÉGIALITÉ - [150h SEM]</i>	50	-	[+]	<b>15</b>
MTFE2037-1	<i>Final work - COLLÉGIALITÉ</i>	-	-	-	<b>15</b>
MSTG2015-5	<i>Placements, 5th year - COLLÉGIALITÉ - [11half-d Internship]</i>	-	-	[+]	<b>15</b>