

One-year master program

Access conditions to the Master 60 (http://www.ulg.ac.be/cms/c_46092/master-en-sciences-physiques)

Compulsory courses

| | | | | | |
|------------|--|----|----|---|----|
| PHYS0240-2 | <i>Biophysics</i> - Maryse HOEBEKE | 30 | 15 | - | 5 |
| PHYS0930-1 | <i>Atomic Physics</i> - Thierry BASTIN | 30 | 15 | - | 5 |
| PHYS0931-1 | <i>Data processing</i> - Pierre MAGAIN | 15 | 30 | - | 5 |
| SMEM0027-1 | <i>Final thesis</i> - COLLÉGIALITÉ | - | - | - | 15 |

Optional courses

Choose, in agreement with the Physics Board of Studies, courses totalling 30 credits, amongst :

Physics

| | | | | | |
|------------|---|----|----|-----|---|
| PHYS0932-1 | <i>Cold atoms and atomic clocks</i> - Thierry BASTIN | 20 | - | - | 3 |
| PHYS2027-1 | <i>Ultracold atoms and Bose-Einstein condensates</i> - Peter SCHLAGHECK | 30 | - | - | 3 |
| AESS0241-1 | <i>Introduction to physic didactics</i> - Maryse HOEBEKE | 20 | - | - | 3 |
| SPAT0012-2 | <i>General relativity I, Part : Introduction</i> - Yves DE ROP | 20 | - | - | 3 |
| PHYS0933-1 | <i>Magnetism and nanomagnetism</i> (english language) - Raphaël HERMANN | 15 | 10 | - | 3 |
| PHYS0934-1 | <i>Coherent Optics and laser applications</i> - Serge HABRAKEN | 15 | 20 | - | 3 |
| PHYS0124-1 | <i>Instrumental Optics I</i> - Serge HABRAKEN | 20 | 15 | - | 3 |
| PHYS0969-1 | <i>Introduction to biophotonics</i> - Laurent DREESEN | 20 | 10 | - | 3 |
| PHYS0937-1 | <i>Physical functional materials</i> (english language) - Philippe GHOSEZ - Suppl : Julien VARIGNON | 20 | 10 | - | 3 |
| PHYS0938-1 | <i>Physics and cultural heritage</i> - David STRIVAY | 15 | 5 | - | 3 |
| PHYS0939-2 | <i>Physics of non-linearities, chaos and fractals</i> - Nicolas VANDEWALLE | 15 | 15 | - | 3 |
| PHYS2012-1 | <i>Relativistic quantum mechanics and relativistic statistics</i> - Peter SCHLAGHECK | 20 | 5 | - | 3 |
| PHYS0250-2 | <i>Experimental statistical physics</i> - Stéphane DORBOLO | 10 | 20 | - | 3 |
| PHYS0941-2 | <i>Theoretical physics : Nuclei and particles</i> - Jean-René CUDELL | 30 | - | - | 3 |
| PHYS0942-1 | <i>Ionising radiations and imaging</i> - Alain SERET | 15 | 5 | - | 3 |
| PHYS0943-1 | <i>Electronic paramagnetic resonance</i> - Maryse HOEBEKE | 15 | 5 | - | 3 |
| PHYS3012-2 | <i>Electronic and vibrational spectroscopies</i> (english language) - Matthieu VERSTRAETE | 15 | 15 | - | 3 |
| PHYS0944-1 | <i>Vacuum techniques</i> - David STRIVAY | 10 | 10 | - | 3 |
| CHIM0202-2 | <i>Physical chemistry</i> - Christian DAMBLON, Bernard LEYH | 30 | - | - | 3 |
| SPAT0012-3 | <i>General relativity I, Part : Complement</i> - Yves DE ROP | 40 | - | - | 3 |
| PHYS0945-1 | <i>Complex fluids</i> - Nicolas VANDEWALLE | 20 | 10 | - | 3 |
| PHYS0235-1 | <i>Introduction to quantum optics</i> - John MARTIN | 30 | - | - | 3 |
| PHYS0948-1 | <i>Microgravity</i> - Hervé CAPS, Nicolas VANDEWALLE - [3d FW] | 10 | 20 | [+] | 6 |
| PHYS0949-1 | <i>Atomic structures modeling</i> - Pascal QUINET | 10 | 10 | - | 3 |
| PHYS0950-1 | <i>Nanoparticles and low-dimensional systems</i> (english language) - Jean-Yves RATY | 20 | 10 | - | 3 |
| PHYS0125-3 | <i>Instrumental Optics II</i> - Serge HABRAKEN | 25 | 30 | - | 6 |
| PHYS3017-1 | <i>Physical science in an historical perspective</i> - Martine JAMINON - [1d Vis.] | 30 | - | [+] | 3 |
| PHYS3013-1 | <i>Physical characterization of materials and interfaces</i> - Ngoc Duy NGUYEN | 15 | 15 | - | 3 |
| PHYS0970-1 | <i>Physics of superconductors</i> - Alejandro SILHANEK | 30 | - | - | 3 |

Environmental management

| | | | | | |
|------------|---|----|----|---|---|
| ENVT0031-2 | <i>Society / Environment (epistemology, law, economics and social sciences towards the environment)</i> - François MELARD, Marc MORMONT | 24 | 12 | - | 3 |
| ENVT0030-2 | <i>Managing the environment (transitional issues, instruments, case studies)</i> - Jean-Marie HAUGLUSTAINE, François MELARD, Marc MORMONT, Catherine MOUGENOT, Pierre M. STASSART | 24 | 12 | - | 3 |
| ENVT0034-1 | <i>GIS data management</i> - Philippe ANDRE, Jacques NICOLAS, Anne-Claude ROMAIN, Bernard TYCHON | 12 | 12 | - | 2 |
| ENVT0013-3 | <i>Assessment tools (impact assessment, LCA)</i> - Alain HANSON, Jacques NICOLAS, Nathalie SEMAL | 12 | 12 | - | 2 |
| ENVT0848-3 | <i>Impacts of human activities on ecosystems and including land use</i> - Célia JOAQUIM#JUSTO, Angélique LÉONARD, Roberto RENZONI, Emmanuël SÉRUSIAUX | 20 | 10 | - | 2 |

Notice : Students who choose the two courses from the "Environmental Science and Management" module will have direct access to the 2nd year of the Masters in

Environmental Science and Management, organised on the Arlon campus. Other students will also have access to the 2nd year of the Masters in Environmental Science and Management, on the condition that they take courses corresponding to these 12 credits in addition to the 60 credits taken during this study year.

[...] Up to 12 ECTS can be chosen in another study path or in another institution, except if the 12 ECTS of the module "Environmental Management" have already been chosen

Two-year master program

Access conditions to the Master 120 (http://www.ulg.ac.be/cms/c_46092/master-en-sciences-physiques)

First Year

Compulsory courses

| | | | | | |
|------------|--|----|----|---|----------|
| PHYS0240-2 | <i>Biophysics</i> - Maryse HOEBEKE | 30 | 15 | - | 5 |
| PHYS0930-1 | <i>Atomic Physics</i> - Thierry BASTIN | 30 | 15 | - | 5 |
| PHYS0931-1 | <i>Data processing</i> - Pierre MAGAIN | 15 | 30 | - | 5 |

Optional courses

Choose one option from the following :

Fundamental 1 Option

| | | | | | |
|------------|---|----|----|---|----------|
| SSTG0016-1 | <i>Training course and personal homework</i> - COLLÉGIALITÉ | 15 | 45 | - | 6 |
|------------|---|----|----|---|----------|

Choose, with the approval of the Physics Board of Studies, courses totalling 24 credits, from :

| | | | | | |
|------------|---|----|----|-----|----------|
| PHYS0932-1 | <i>Cold atoms and atomic clocks</i> - Thierry BASTIN | 20 | - | - | 3 |
| PHYS2027-1 | <i>Ultracold atoms and Bose-Einstein condensates</i> - Peter SCHLAGHECK | 30 | - | - | 3 |
| AESS0241-1 | <i>Introduction to physic didactics</i> - Maryse HOEBEKE | 20 | - | - | 3 |
| SPAT0012-2 | <i>General relativity I, Part : Introduction</i> - Yves DE ROP | 20 | - | - | 3 |
| PHYS0933-1 | <i>Magnetism and nanomagnetism (english language)</i> - Raphaël HERMANN | 15 | 10 | - | 3 |
| PHYS0934-1 | <i>Coherent Optics and laser applications</i> - Serge HABRAKEN | 15 | 20 | - | 3 |
| PHYS0124-1 | <i>Instrumental Optics I</i> - Serge HABRAKEN | 20 | 15 | - | 3 |
| PHYS0969-1 | <i>Introduction to biophotonics</i> - Laurent DREESEN | 20 | 10 | - | 3 |
| PHYS0937-1 | <i>Physical functional materials (english language)</i> - Philippe GHOSEZ - Suppl : Julien VARIGNON | 20 | 10 | - | 3 |
| PHYS0938-1 | <i>Physics and cultural heritage</i> - David STRIVAY | 15 | 5 | - | 3 |
| PHYS0939-2 | <i>Physics of non-linearities, chaos and fractals</i> - Nicolas VANDEWALLE | 15 | 15 | - | 3 |
| PHYS2012-1 | <i>Relativistic quantum mechanics and relativistic statistics</i> - Peter SCHLAGHECK | 20 | 5 | - | 3 |
| PHYS0250-2 | <i>Experimental statistical physics</i> - Stéphane DORBOLO | 10 | 20 | - | 3 |
| PHYS0941-2 | <i>Theoretical physics : Nuclei and particles</i> - Jean-René CUDELL | 30 | - | - | 3 |
| PHYS0942-1 | <i>Ionising radiations and imaging</i> - Alain SERET | 15 | 5 | - | 3 |
| PHYS0943-1 | <i>Electronic paramagnetic resonance</i> - Maryse HOEBEKE | 15 | 5 | - | 3 |
| PHYS3012-2 | <i>Electronic and vibrational spectroscopies (english language)</i> - Matthieu VERSTRAETE | 15 | 15 | - | 3 |
| PHYS0944-1 | <i>Vacuum techniques</i> - David STRIVAY | 10 | 10 | - | 3 |
| CHIM0202-2 | <i>Physical chemistry</i> - Christian DAMBLON, Bernard LEYH | 30 | - | - | 3 |
| SPAT0012-3 | <i>General relativity I, Part : Complement</i> - Yves DE ROP | 40 | - | - | 3 |
| PHYS0945-1 | <i>Complex fluids</i> - Nicolas VANDEWALLE | 20 | 10 | - | 3 |
| PHYS0235-1 | <i>Introduction to quantum optics</i> - John MARTIN | 30 | - | - | 3 |
| PHYS0949-1 | <i>Atomic structures modeling</i> - Pascal QUINET | 10 | 10 | - | 3 |
| PHYS0950-1 | <i>Nanoparticles and low-dimensional systems (english language)</i> - Jean-Yves RATY | 20 | 10 | - | 3 |
| PHYS0125-3 | <i>Instrumental Optics II</i> - Serge HABRAKEN | 25 | 30 | - | 6 |
| PHYS3017-1 | <i>Physical science in an historical perspective</i> - Martine JAMINON - [1d Vis.] | 30 | - | [+] | 3 |
| PHYS3013-1 | <i>Physical characterization of materials and interfaces</i> - Ngoc Duy NGUYEN | 15 | 15 | - | 3 |
| PHYS0970-1 | <i>Physics of superconductors</i> - Alejandro SILHANEK | 30 | - | - | 3 |
| [...] | Up to 15 credits can be chosen in another study path or in another institution | | | | |

Option Medical Physics 1

| | | | | | |
|------------|--|----|----|-----|----------|
| PHYS0952-1 | <i>Fundamental problems in physics related to radiology, radiotherapy and nuclear medicine</i> | | | | 6 |
| | - part : radiobiology - Christophe CHAMPION | 10 | - | - | |
| | - part : dosimetry - Marie-Thérèse HOORNAERT | 20 | - | - | |
| | - part : medical imaging - Alain SERET | 20 | 5 | - | |
| RADP0141-1 | <i>Radioprotection</i> | | | | 5 |
| | - Part a) Radioprotection techniques and complements - Véra PIRLET | 30 | 15 | - | |
| | - Part b) Legislation on radioprotection and the organisation of a radiotherapy, radiodiagnostic and nuclear medicine department - Véra PIRLET | 10 | - | - | |
| RADI2001-1 | <i>Radioprotection : Hygiene problems</i> - Roland HUSTINX | 15 | - | - | 2 |
| BIOL0007-1 | <i>Tissue biology</i> - Marc THIRY | 15 | 25 | - | 4 |
| PHYL0644-1 | <i>Human Anatomy and Physiology</i> - Pierre BONNET | 30 | - | - | 3 |
| ANAT0222-1 | <i>Elements of Radiology</i> - Paul MAGOTTEAUX, Paul MEUNIER, Mladen MILICEVIC, Bernard OTTO, Paolo SIMONI, Luaba TSHIBANDA | 10 | 5 | - | 2 |
| STAT0722-1 | <i>Introduction to medical statistics</i> - Christophe PHILLIPS | 10 | 5 | - | 2 |
| CHIM0620-1 | <i>Radiopharmaceutical Chemistry</i> - André LUXEN | 20 | 10 | - | 3 |
| PHYS0128-1 | <i>Magnetic Resonance Imaging - the Basics</i> (english language) - Evelyne BALTEAU - [3d FW] | 15 | - | [+] | 3 |

Choose a 2nd option among the following

Fundamental 2 Option

Requisite

"Option fondamentale 1"

Choose, in agreement with the Physics Board of Studies, courses totalling 15 credits

| | | | | | |
|------------|---|----|----|-----|----------|
| PHYS0932-1 | <i>Cold atoms and atomic clocks</i> - Thierry BASTIN | 20 | - | - | 3 |
| PHYS2027-1 | <i>Ultracold atoms and Bose-Einstein condensates</i> - Peter SCHLAGHECK | 30 | - | - | 3 |
| AESS0241-1 | <i>Introduction to physic didactics</i> - Maryse HOEBEKE | 20 | - | - | 3 |
| SPAT0012-2 | <i>General relativity I, Part : Introduction</i> - Yves DE ROP | 20 | - | - | 3 |
| PHYS0933-1 | <i>Magnetism and nanomagnetism</i> (english language) - Raphaël HERMANN | 15 | 10 | - | 3 |
| PHYS0934-1 | <i>Coherent Optics and laser applications</i> - Serge HABRAKEN | 15 | 20 | - | 3 |
| PHYS0124-1 | <i>Instrumental Optics I</i> - Serge HABRAKEN | 20 | 15 | - | 3 |
| PHYS0969-1 | <i>Introduction to biophotonics</i> - Laurent DREESEN | 20 | 10 | - | 3 |
| PHYS0937-1 | <i>Physical functional materials</i> (english language) - Philippe GHOSEZ - Suppl : Julien VARIGNON | 20 | 10 | - | 3 |
| PHYS0938-1 | <i>Physics and cultural heritage</i> - David STRIVAY | 15 | 5 | - | 3 |
| PHYS0939-2 | <i>Physics of non-linearities, chaos and fractals</i> - Nicolas VANDEWALLE | 15 | 15 | - | 3 |
| PHYS2012-1 | <i>Relativistic quantum mechanics and relativistic statistics</i> - Peter SCHLAGHECK | 20 | 5 | - | 3 |
| PHYS0250-2 | <i>Experimental statistical physics</i> - Stéphane DORBOLO | 10 | 20 | - | 3 |
| PHYS0941-2 | <i>Theoretical physics : Nuclei and particles</i> - Jean-René CUDELL | 30 | - | - | 3 |
| PHYS0942-1 | <i>Ionising radiations and imaging</i> - Alain SERET | 15 | 5 | - | 3 |
| PHYS0943-1 | <i>Electronic paramagnetic resonance</i> - Maryse HOEBEKE | 15 | 5 | - | 3 |
| PHYS3012-2 | <i>Electronic and vibrational spectroscopies</i> (english language) - Matthieu VERSTRAETE | 15 | 15 | - | 3 |
| PHYS0944-1 | <i>Vacuum techniques</i> - David STRIVAY | 10 | 10 | - | 3 |
| CHIM0202-2 | <i>Physical chemistry</i> - Christian DAMBLON, Bernard LEYH | 30 | - | - | 3 |
| SPAT0012-3 | <i>General relativity I, Part : Complement</i> - Yves DE ROP | 40 | - | - | 3 |
| PHYS0945-1 | <i>Complex fluids</i> - Nicolas VANDEWALLE | 20 | 10 | - | 3 |
| PHYS0235-1 | <i>Introduction to quantum optics</i> - John MARTIN | 30 | - | - | 3 |
| PHYS0949-1 | <i>Atomic structures modeling</i> - Pascal QUINET | 10 | 10 | - | 3 |
| PHYS0950-1 | <i>Nanoparticles and low-dimensional systems</i> (english language) - Jean-Yves RATY | 20 | 10 | - | 3 |
| PHYS0125-3 | <i>Instrumental Optics II</i> - Serge HABRAKEN | 25 | 30 | - | 6 |
| PHYS3017-1 | <i>Physical science in an historical perspective</i> - Martine JAMINON - [1d Vis.] | 30 | - | [+] | 3 |
| PHYS3013-1 | <i>Physical characterization of materials and interfaces</i> - Ngoc Duy NGUYEN | 15 | 15 | - | 3 |
| PHYS0970-1 | <i>Physics of superconductors</i> - Alejandro SILHANEK | 30 | - | - | 3 |

Option Medical Physics 2

| | <u>Requisite</u> | "Option physique médicale 1" | | | | |
|------------|---|------------------------------|---|---|-----|---|
| SSTG0017-2 | <i>Training in nuclear medicine</i> - Claire BERNARD, Alain SERET - [1w Internship] | | - | - | [+] | 5 |
| SSTG0018-2 | <i>Training in radiology</i> - Françoise MALCHAIR - [1w Internship] | | - | - | [+] | 5 |
| SSTG0019-2 | <i>Training in radiotherapy</i> - Marie-Thérèse HOORNAERT - [1w Internship] | | - | - | [+] | 5 |

Second year

Compulsory course

| | | | | | | |
|------------|------------------------------------|--|---|---|---|----|
| SMEM0028-1 | <i>Final thesis</i> - COLLÉGIALITÉ | | - | - | - | 15 |
|------------|------------------------------------|--|---|---|---|----|

Optional courses

Choose one option from the following :

Fundamental 3 Option

Prerequisite "Option fondamentale 2"

With the approval of the Board of Studies in Physics, choose courses not chosen in the 1st year totaling 15 credits :

| | | | | | | |
|------------|---|----|----|-----|--|---|
| PHYS0932-1 | <i>Cold atoms and atomic clocks</i> - Thierry BASTIN | 20 | - | - | | 3 |
| PHYS2027-1 | <i>Ultracold atoms and Bose-Einstein condensates</i> - Peter SCHLAGHECK | 30 | - | - | | 3 |
| AESS0241-1 | <i>Introduction to physic didactics</i> - Maryse HOEBEKE | 20 | - | - | | 3 |
| SPAT0012-2 | <i>General relativity I, Part : Introduction</i> - Yves DE ROP | 20 | - | - | | 3 |
| PHYS0933-1 | <i>Magnetism and nanomagnetism (english language)</i> - Raphaël HERMANN | 15 | 10 | - | | 3 |
| PHYS0934-1 | <i>Coherent Optics and laser applications</i> - Serge HABRAKEN | 15 | 20 | - | | 3 |
| PHYS0124-1 | <i>Instrumental Optics I</i> - Serge HABRAKEN | 20 | 15 | - | | 3 |
| PHYS0969-1 | <i>Introduction to biophotonics</i> - Laurent DREESEN | 20 | 10 | - | | 3 |
| PHYS0937-1 | <i>Physical functional materials (english language)</i> - Philippe GHOSEZ - Suppl : Julien VARIGNON | 20 | 10 | - | | 3 |
| PHYS0938-1 | <i>Physics and cultural heritage</i> - David STRIVAY | 15 | 5 | - | | 3 |
| PHYS0939-2 | <i>Physics of non-linearities, chaos and fractals</i> - Nicolas VANDEWALLE | 15 | 15 | - | | 3 |
| PHYS2012-1 | <i>Relativistic quantum mechanics and relativistic statistics</i> - Peter SCHLAGHECK | 20 | 5 | - | | 3 |
| PHYS0250-2 | <i>Experimental statistical physics</i> - Stéphane DORBOLO | 10 | 20 | - | | 3 |
| PHYS0941-2 | <i>Theoretical physics : Nuclei and particles</i> - Jean-René CUDELL | 30 | - | - | | 3 |
| PHYS0942-1 | <i>Ionising radiations and imaging</i> - Alain SERET | 15 | 5 | - | | 3 |
| PHYS0943-1 | <i>Electronic paramagnetic resonance</i> - Maryse HOEBEKE | 15 | 5 | - | | 3 |
| PHYS3012-2 | <i>Electronic and vibrational spectroscopies (english language)</i> - Matthieu VERSTRAETE | 15 | 15 | - | | 3 |
| PHYS0944-1 | <i>Vacuum techniques</i> - David STRIVAY | 10 | 10 | - | | 3 |
| CHIM0202-2 | <i>Physical chemistry</i> - Christian DAMBLON, Bernard LEYH | 30 | - | - | | 3 |
| SPAT0012-3 | <i>General relativity I, Part : Complement</i> - Yves DE ROP | 40 | - | - | | 3 |
| PHYS0945-1 | <i>Complex fluids</i> - Nicolas VANDEWALLE | 20 | 10 | - | | 3 |
| PHYS0235-1 | <i>Introduction to quantum optics</i> - John MARTIN | 30 | - | - | | 3 |
| PHYS0948-1 | <i>Microgravity</i> - Hervé CAPS, Nicolas VANDEWALLE - [3d FW] | 10 | 20 | [+] | | 6 |
| PHYS0949-1 | <i>Atomic structures modeling</i> - Pascal QUINET | 10 | 10 | - | | 3 |
| PHYS0950-1 | <i>Nanoparticles and low-dimensional systems (english language)</i> - Jean-Yves RATY | 20 | 10 | - | | 3 |
| PHYS0125-3 | <i>Instrumental Optics II</i> - Serge HABRAKEN | 25 | 30 | - | | 6 |
| PHYS3017-1 | <i>Physical science in an historical perspective</i> - Martine JAMINON - [1d Vis.] | 30 | - | [+] | | 3 |
| PHYS3013-1 | <i>Physical characterization of materials and interfaces</i> - Ngoc Duy NGUYEN | 15 | 15 | - | | 3 |
| PHYS0970-1 | <i>Physics of superconductors</i> - Alejandro SILHANEK | 30 | - | - | | 3 |

Option: Medical Physics 3

Prerequisite "Option Physique médicale 2"

| | | | | | | |
|------------|---|----|----|---|--|---|
| QUAL0722-1 | <i>Safety and quality assurance</i> - Eric LENAERTS | 5 | 10 | - | | 2 |
| RADL0442-1 | <i>Radiobiology and radiopathologie elements</i> - Chantal HUMBLET, Philippe MARTINIVE | 40 | 20 | - | | 6 |
| PHYS2024-1 | <i>Transfer and co-registration of medical images</i> - Mohamed Ali BAHRI | 15 | - | - | | 2 |
| PHYS2025-1 | <i>Fundamental problems of physics relating to medical radiodiagnosics, radiotherapy and nuclear medicine : internal dosimetry of radiopharmaceutical</i> | 15 | - | - | | 2 |

| | | | | | |
|------------|--|----|---|-----|---|
| CHIM0621-2 | <i>compounds (english language) - Klaus BACHER</i> <i>Production and application of radioelements - André LUXEN - [3d FW]</i> | 15 | - | [+] | 3 |
|------------|--|----|---|-----|---|

Choose one of the following focus :

Research Focus

Compulsory courses

| | | | | | |
|------------|--|---|---|---|----|
| STRA0030-1 | <i>Complement of final thesis - COLLÉGIALITÉ</i> | - | - | - | 12 |
| PHYS0963-1 | <i>Seminars - COLLÉGIALITÉ</i> | - | - | - | 3 |

Optional courses

[...] With the approval of the Board of Studies in Physics, choose additional courses not already taken totaling 15 ECTS from the ULg courses programme

Teaching focus

Compulsory courses

| | | | | | |
|------------|---|----|----|-----|---|
| AESS0215-1 | <i>Special didactics in physics (part I)</i> | | | | 6 |
| | - <i>Course and exercises - Hervé CAPS, Maryse HOEBEKE</i> | 40 | - | - | |
| | - <i>Observation placements - Hervé CAPS, Maryse HOEBEKE - [10h Internship]</i> | - | - | [+] | |
| | - <i>Teaching placements - Hervé CAPS, Maryse HOEBEKE - [20h Internship]</i> | - | - | [+] | |
| | - <i>Reflexive practical work - Hervé CAPS, Maryse HOEBEKE</i> | - | 5 | - | |
| AESS0233-1 | <i>Special didactics in physics (part II)</i> | | | | 9 |
| | - <i>Course and exercises - Hervé CAPS, Maryse HOEBEKE</i> | 35 | - | - | |
| | - <i>Teaching placements - Hervé CAPS, Maryse HOEBEKE - [20h Internship]</i> | - | - | [+] | |
| | - <i>Reflexive practical work - Hervé CAPS, Maryse HOEBEKE</i> | - | 5 | - | |
| | - <i>School practical outside lectures - Hervé CAPS, Maryse HOEBEKE</i> | - | 10 | - | |
| AESS0202-1 | <i>General didactics: course and exercises ; observation placements ; reflexive practices - Annick FAGNANT - [10h Internship]</i> | 30 | 10 | [+] | 4 |
| AESS0246-1 | <i>Analysis of scolastic institutions and key-players, educational policies - Jacqueline BECKERS</i> | 15 | - | - | 1 |
| AESS0004-1 | <i>Media education - Geneviève VAN CAUWENBERGE</i> | 15 | - | - | 1 |
| AESS0248-1 | <i>Elements of sociology of education - Jean-François GUILLAUME</i> | 10 | - | - | 1 |
| AESS0247-1 | <i>Views on cultural diversity - Jérôme JAMIN</i> | 10 | - | - | 1 |
| AESS0140-1 | <i>Professional ethics and training to neutrality and citizenship - Anne HERLA</i> | 25 | - | - | 2 |
| AESS0143-1 | <i>Educational Psychology of adolescents and young adults - Annick FAGNANT</i> | 15 | - | - | 2 |
| AESS0249-1 | <i>Interdisciplinary seminar - Annick FAGNANT</i> | 15 | - | - | 1 |
| AESS0142-1 | <i>Seminar on prevention and management of difficult school situations - Jocelyne ROBERT</i> | 15 | - | - | 2 |

Professional Focus in Medical Radiological Physics

Compulsory courses

| | | | | | |
|------------|--|----|---|-----|----|
| PHYS0954-2 | <i>Fundamental problems in physics related to radiology, radiotherapy and nuclear medicine</i> | | | | 12 |
| | - <i>Special applications and techniques in radiotherapy - Marie-Thérèse HOORNAERT</i> | 35 | - | - | |
| | - <i>Special applications and techniques in radiodiagnostics - Hilde BOSMANS</i> | 15 | - | - | |
| | - <i>Special applications and techniques in nuclear medicine - Claire BERNARD, Roland HUSTINX, Alain SERET</i> | 20 | - | - | |
| | - <i>Computerized dosimetry in radiotherapy - Eric LENAERTS</i> | 15 | - | - | |
| SSTG0015-2 | <i>Training - COLLÉGIALITÉ - [3mois Internship]</i> | - | - | [+] | 18 |