

#### Block view of the study programme

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##### Block 1

###### Cours obligatoires du tronc commun

PHYS0974-1	<i>Materials physics and biophysics</i> - Maryse HOEBEKE, Alejandro SILHANEK	Q1	30	-	-	<b>5</b>
PHYS0930-1	<i>Atomic physics</i> - Thierry BASTIN, Peter SCHLAGHECK	Q1	30	-	-	<b>5</b>
PHYS0975-1	<i>Introduction to soft matter and complex systems</i> - Nicolas VANDEWALLE	Q1	30	-	-	<b>5</b>

###### Cours au choix du tronc commun

In agreement with the Jury, choose a subject among :

###### Basic course

SSTG0016-1	<i>Training sessions and personal work</i> (english language) - COLLÉGIALITÉ, ISLV	Q2	15	45	-	<b>5</b>
PHYS0983-1	<i>Seminars in advanced physics I</i> (english language)	TA				<b>4</b>
	- <i>Materials physics and biophysics</i> - COLLÉGIALITÉ		10	-	-	
	- <i>Atomic physics</i> - COLLÉGIALITÉ		10	-	-	
	- <i>Physics of soft matter and complex systems</i> - COLLÉGIALITÉ		10	-	-	

Choisir en accord avec le Jury des cours pour un total de 36 crédits parmi :

###### Atomic and nuclear

PHYS0932-1	<i>Cold atoms and atomic clocks</i> - Thierry BASTIN	Q2	20	10	-	<b>4</b>
	<b>Corequisite :</b>					
	PHYS0930-1 - Physique atomique					
PHYS2027-2	<i>Ultracold atoms and Bose-Enstein condensates</i> - Peter SCHLAGHECK	Q2	25	-	-	<b>4</b>
	<b>Corequisite :</b>					
	PHYS0930-1 - Physique atomique					
	PHYS3021-1 - Mécanique quantique avancée					
PHYS0235-2	<i>Quantum optics</i> - John MARTIN	Q2	20	10	-	<b>4</b>
	<b>Corequisite :</b>					
	PHYS0930-1 - Physique atomique					
	PHYS3021-1 - Mécanique quantique avancée					
PHYS0949-1	<i>Atomic structures modelling</i> - Pascal QUINET	Q2	10	10	-	<b>4</b>
	<b>Corequisite :</b>					
	PHYS0930-1 - Physique atomique					
PHYS0941-2	<i>Theoretical physics : Nuclei and particles</i> - JeanRené CUDELL	Q1	30	-	-	<b>4</b>
PHYS3021-1	<i>Advanced quantum mechanics</i> - Thierry BASTIN, John MARTIN, Peter SCHLAGHECK	Q1	30	-	-	<b>4</b>
PHYS0997-1	<i>Quantum information and computation</i> (english language) - François DAMANET	Q1	30	-	-	<b>4</b>
PHYS3136-1	<i>Open quantum systems</i> (english language) - François DAMANET, John MARTIN - [10h Proj.]	Q2	20	-	[+]	<b>4</b>
	<b>Corequisite :</b>					
	PHYS3021-1 - Mécanique quantique avancée					
	PHYS0235-2 - Optique quantique					

###### Soft Materials / Statistical Physics

PHYS0969-1	<i>Introduction to biophotonics</i> - Laurent DREESEN	Q2	20	10	-	<b>4</b>
PHYS0939-2	<i>Physics of non-linearity, chaos and fractals</i> - Nicolas VANDEWALLE	Q2	15	15	-	<b>4</b>
	<b>Corequisite :</b>					
	PHYS0975-1 - Introduction à la matière molle et aux systèmes complexes					
PHYS3020-1	<i>Discrete element method and soft materials</i> - Eric OPSOMER - [15h Proj.]	Q2	20	-	[+]	<b>4</b>

# Study programmes 2024-2025

## Faculty of Sciences

### Master in physics, teaching focus

#### Materials / Solid State

PHYS3003-1	<i>Physics of functional oxides</i> (english language) - Philippe GHOSEZ <b>Corequisite :</b> PHYS0974-1 - Physique des matériaux et biophysique	Q1	20	10	-	<b>4</b>
PHYS3004-1	<i>Physics of nanomaterials</i> (english language) - JeanYves RATY <b>Corequisite :</b> PHYS0974-1 - Physique des matériaux et biophysique	Q2	20	10	-	<b>4</b>
PHYS3023-1	<i>Physics of magnetic materials</i> (english language) - Eric BOUSQUET <b>Corequisite :</b> PHYS0974-1 - Physique des matériaux et biophysique	Q2	20	10	-	<b>4</b>
PHYS0981-1	<i>Quantum modelling of materials properties</i> (english language) - Philippe GHOSEZ <b>Corequisite :</b> PHYS0974-1 - Physique des matériaux et biophysique	Q1	20	10	-	<b>4</b>
CHIM0202-2	<i>Physical Chemistry</i> - Christian DAMBLON, Bernard LEYH	Q2	30	-	-	<b>4</b>
PHYS0987-1	<i>Physics of materials for energy</i> (english language) - Ngoc Duy NGUYEN - [15h Proj.]	Q1	20	-	[+]	<b>4</b>
PHYS0988-1	<i>Intrinsic and induced topological properties of matter</i> (english language) - Bertrand DUPÉ	Q2	20	10	-	<b>4</b>

#### Quantum Physics and Relativity

PHYS2012-1	<i>Relativistic quantum mechanics and relativistic statistics</i> - Peter SCHLAGHECK	Q1	20	5	-	<b>4</b>
SPAT0012-1	<i>General relativity</i> (english language) - Guillaume MAHLER	Q1	30	10	-	<b>4</b>

#### Experimental Physics

PHYS0250-2	<i>Experimental statistical physics</i> - Stéphane DORBOLO <b>Corequisite :</b> PHYS0975-1 - Introduction à la matière molle et aux systèmes complexes	Q2	10	20	-	<b>4</b>
PHYS3019-1	<i>Techniques of experimental physics</i> - Geoffroy LUMAY	Q2	20	20	-	<b>4</b>
PHYS0943-1	<i>Spectroscopy of electronic paramagnetic resonance</i> - Maryse HOEBEKE <b>Corequisite :</b> PHYS0974-1 - Physique des matériaux et biophysique	Q2	15	15	-	<b>4</b>
PHYS0095-1	<i>The physics of accelerators and vacuum technologies</i> - David STRIVAY	Q2	10	10	-	<b>4</b>
PHYS0968-1	<i>Signal processing</i> - Alejandro SILHANEK	Q2	25	20	-	<b>4</b>
PHYS3037-1	<i>Nanofabrication : principles and techniques</i> (english language) - Ngoc Duy NGUYEN, Alejandro SILHANEK <b>Corequisite :</b> PHYS0974-1 - Physique des matériaux et biophysique	Q2	25	15	-	<b>4</b>
PHYS0999-1	<i>Digital creation in sciences</i> - Roland BILLEN, Valentin FISCHER, Pierre MATHONET, JeanChristophe MONBALIU, Eric PARMENTIER, Nicolas VANDEWALLE - [30h Proj.]	TA	10	-	[+]	<b>5</b>

#### Optics and Imaging

PHYS0942-3	<i>Ionising radiations and imaging</i> - Alain SERET	Q1	20	5	-	<b>4</b>
PHYS0938-1	<i>Physics and cultural heritage</i> - David STRIVAY	Q1	15	5	-	<b>4</b>
PHYS0048-2	<i>Coherent and incoherent optics</i> (english language) - <i>Coherent optics and lasers applications</i> - Serge HABRAKEN - <i>Laser physics</i> - Serge HABRAKEN	Q1		10	15	-
				5	5	-
PHYS0048-3	<i>Coherent and incoherent optics, Instrumental optics I</i> (english language) - Serge HABRAKEN	Q1	20	15	-	<b>4</b>
PHYS0128-1	<i>Magnetic Resonance Imaging - the Basics</i> (english language) -	Q1	15	-	[+]	<b>2</b>

# Study programmes 2024-2025

## Faculty of Sciences

### Master in physics, teaching focus

LAMALLE - [3d FW]

#### Applied physics

INFO0939-1	<i>High performance scientific computing</i> (english language) - Christophe GEUZAIN - [20h Proj.]	Q1	30	15	[+]	<b>5</b>
MECA0470-1	<i>New methods in computational mechanics and physics</i> (english language) - Maarten ARNST, Eric BÉCHET, Ludovic NOELS - [40h Proj.]	Q2	20	-	[+]	<b>5</b>
ELEN0062-1	<i>Introduction to machine learning</i> (english language) - Pierre GEURTS, Louis WEHENKEL - [40h Proj.]	Q1	30	5	[+]	<b>6</b>

#### Didactics

PHYS0979-1	<i>Conceptual approach to basic physics</i> - Hervé CAPS, Maryse HOEBEKE	Q1	30	-	-	<b>4</b>
AESS0241-1	<i>Introduction to physics didactics</i> - Maryse HOEBEKE	Q1	20	-	-	<b>4</b>

[...] Up to 20 credits (or more, in agreement with the Jury) in the two blocks may also be chosen in another study field or institution

#### Course Medical Physics

PHYS0952-3	<i>Imaging through ionising radiation</i> - Alain SERET <b>Corequisite :</b> PHYS0990-1 - Dosimétrie PHYS0989-1 - Radiobiology	Q1	25	5	-	<b>4</b>
PHYS0989-1	<i>Radiobiology</i> (english language) - N... <b>Corequisite :</b> PHYS0990-1 - Dosimétrie PHYS0952-3 - Imagerie par radiations ionisantes	Q2	10	-	-	<b>2</b>
PHYS0990-1	<i>Dosimetry</i> - Véronique BAART, Luca PELLEGRI <b>Corequisite :</b> PHYS0989-1 - Radiobiology PHYS0952-3 - Imagerie par radiations ionisantes	Q2	20	-	-	<b>3</b>
RADI2001-1	<i>Radioprotection: hygiene problems</i> <b>Corequisite :</b> PHYS0990-1 - Dosimétrie PHYS0989-1 - Radiobiology RADP0141-1 - Radioprotection BIOL0007-1 - Biologie tissulaire PHYS0952-3 - Imagerie par radiations ionisantes	Q1	15	-	-	<b>2</b>
BIOL0007-1	<i>Tissue biology</i> - Marc THIRY	Q1	15	25	-	<b>4</b>
PHYL0644-1	<i>Human Anatomy and Physiology</i>	Q2	30	-	-	<b>3</b>
ANAT0222-1	<i>Elements of Radiology</i> - Paul MEUNIER, Luaba TSHIBANDA, Christophe VALKENBORGH	Q1	10	5	-	<b>2</b>
CHIM0620-1	<i>Radiopharmaceutical Chemistry</i> - Thibault GENDRON	Q1	20	10	-	<b>3</b>
PHYS0128-1	<i>Magnetic Resonance Imaging - the Basics</i> (english language) - Laurent LAMALLE - [3d FW] <b>Corequisite :</b> PHYS0930-1 - Physique atomique	Q1	15	-	[+]	<b>2</b>
RADP0141-1	<i>Radioprotection</i> - Part a) <i>Radioprotection techniques and complements</i> - Véra PIRLET - Part b) <i>Legislation on radioprotection and the organisation of a radiotherapy, radiodiagnostic and nuclear medicine department</i> - Véra PIRLET	Q2	30	15	-	<b>6</b>
			10	-	-	
SSTG0041-1	<i>Placement in medical radiophysics</i> - Véronique BAART, Claire BERNARD, Alain SERET - [12d Internship] <b>Corequisite :</b>	Q2	2	-	[+]	<b>7</b>

# Study programmes 2024-2025

## Faculty of Sciences

### Master in physics, teaching focus

PHYS0990-1 - Dosimétrie  
 PHYS0989-1 - Radiobiology  
 PHYS0952-3 - Imagerie par radiations ionisantes

STAT0420-1	<i>Biostatistics 2</i> - AnneFrançoise DONNEAU	Q1	15	15	-	<b>3</b>
PHYS0968-1	<i>Signal processing</i> - Alejandro SILHANEK	Q2	25	20	-	<b>4</b>

#### Block 2

##### Cours obligatoires de la finalité

AESS1222-1	<i>Special didactics in physics : course and exercises (1st part)</i> - Hervé CAPS, Maryse HOEBEKE	Q1	40	-	-	<b>3</b>
<b>Corequisite :</b>						
	PHYS0979-1 - Approche conceptuelle de la physique de base					
AESS1223-1	<i>Special didactics in physics : placements (1st part)</i>	Q1				<b>3</b>
	- <i>Observation placements</i> - Hervé CAPS, Maryse HOEBEKE - [10h Internship]		-	-	[+]	
	- <i>Teaching placements</i> - Hervé CAPS, Maryse HOEBEKE - [20h Internship]		-	-	[+]	
	- <i>Reflexive practical work</i> - Hervé CAPS, Maryse HOEBEKE		-	5	-	
<b>Corequisite :</b>						
	PHYS0979-1 - Approche conceptuelle de la physique de base					
AESS2222-1	<i>Special didactics in physics : course and exercises (2nd part)</i> - Hervé CAPS, Maryse HOEBEKE	Q2	35	-	-	<b>4</b>
AESS2223-1	<i>Special didactics in physics : placements (2nd part)</i>	Q2				<b>5</b>
	- <i>Teaching placements</i> - Hervé CAPS, Maryse HOEBEKE - [20h Internship]		-	-	[+]	
	- <i>Reflexive practical work</i> - Hervé CAPS, Maryse HOEBEKE		-	5	-	
	- <i>Extra-scholar teaching activities</i> - Hervé CAPS, Maryse HOEBEKE		-	10	-	
AESS0202-1	<i>General didactics: course and exercises ; observation placements ; reflexive practices</i> - Annick FAGNANT - [10h Internship]	TA	30	10	[+]	<b>4</b>
AESS0246-1	<i>Analysis of scholastic institutions and educational policies</i> - Annelise VOISIN	Q2	15	-	-	<b>1</b>
AESS0004-1	<i>Media education</i> - Jeremy HAMERS	Q1	15	-	-	<b>1</b>
AESS0248-1	<i>Elements of sociology of education</i> - JeanFrançois GUILLAUME	Q2	10	-	-	<b>1</b>
AESS0140-1	<i>Professional ethics and training to neutrality and citizenship</i> - Anne HERLA	Q2	25	-	-	<b>2</b>
AESS0143-1	<i>Educational Psychology of adolescents and young adults</i> - Annick FAGNANT	Q1	15	-	-	<b>2</b>
AESS0249-1	<i>Interdisciplinary seminar</i> - Annick FAGNANT	Q2	15	-	-	<b>1</b>
AESS0339-1	<i>Understand and manage the diversity of public schools</i> - Ariane BAYE	TA	10	15	-	<b>3</b>

##### Cours obligatoire du tronc commun

SMEM0028-1	<i>Final thesis</i> - COLLÉGIALITÉ	TA	-	-	-	<b>18</b>
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##### Cours au choix du tronc commun

In agreement with the Jury, choose a subject among :

###### Basic course

PHYS0984-1	<i>Seminars in advanced physics II</i> (english language)	TA				<b>4</b>
	- <i>Materials physics and biophysics</i> - COLLÉGIALITÉ		10	-	-	
	- <i>Atomic physics</i> - COLLÉGIALITÉ		10	-	-	
	- <i>Physics of soft matter and complex systems</i> - COLLÉGIALITÉ		10	-	-	
<b>Prerequisite :</b>						
	PHYS0983-1 - Séminaires de Physique avancée I					

Choisir en accord avec le Jury des cours non déjà choisis pour un total de 8 crédits parmi :

###### Atomic and nuclear

PHYS0932-1	<i>Cold atoms and atomic clocks</i> - Thierry BASTIN	Q2	20	10	-	<b>4</b>
<b>Corequisite :</b>						

# Study programmes 2024-2025

## Faculty of Sciences

### Master in physics, teaching focus

	PHYS0930-1 - Physique atomique						
PHYS2027-2	<i>Ultracold atoms and Bose-Enstein condensates</i> - Peter SCHLAGHECK	Q2	25	-	-	-	<b>4</b>
	<b>Corequisite :</b>						
	PHYS0930-1 - Physique atomique						
	PHYS3021-1 - Mécanique quantique avancée						
PHYS0235-2	<i>Quantum optics</i> - John MARTIN	Q2	20	10	-	-	<b>4</b>
	<b>Corequisite :</b>						
	PHYS0930-1 - Physique atomique						
	PHYS3021-1 - Mécanique quantique avancée						
PHYS0949-1	<i>Atomic structures modelling</i> - Pascal QUINET	Q2	10	10	-	-	<b>4</b>
	<b>Corequisite :</b>						
	PHYS0930-1 - Physique atomique						
PHYS0941-2	<i>Theoretical physics : Nuclei and particles</i> - JeanRené CUDELL	Q1	30	-	-	-	<b>4</b>
PHYS3021-1	<i>Advanced quantum mechanics</i> - Thierry BASTIN, John MARTIN, Peter SCHLAGHECK	Q1	30	-	-	-	<b>4</b>
PHYS0997-1	<i>Quantum information and computation</i> (english language) - François DAMANET	Q1	30	-	-	-	<b>4</b>
PHYS3136-1	<i>Open quantum systems</i> (english language) - François DAMANET, John MARTIN - [10h Proj.]	Q2	20	-	[+]	[+]	<b>4</b>
	<b>Corequisite :</b>						
	PHYS3021-1 - Mécanique quantique avancée						
	PHYS0235-2 - Optique quantique						

#### Soft Materials / Statistical Physics

PHYS0969-1	<i>Introduction to biophotonics</i> - Laurent DREESEN	Q2	20	10	-	-	<b>4</b>
PHYS0939-2	<i>Physics of non-linearity, chaos and fractals</i> - Nicolas VANDEWALLE	Q2	15	15	-	-	<b>4</b>
	<b>Corequisite :</b>						
	PHYS0975-1 - Introduction à la matière molle et aux systèmes complexes						
PHYS3020-1	<i>Discrete element method and soft materials</i> - Eric OPSOMER - [15h Proj.]	Q2	20	-	[+]	[+]	<b>4</b>
PHYS0948-1	<i>Microgravity</i> - Martial NOIRHOMME, Nicolas VANDEWALLE - [3d FW]	Q2	10	20	[+]	[+]	<b>4</b>
	<b>Corequisite :</b>						
	PHYS0975-1 - Introduction à la matière molle et aux systèmes complexes						

#### Materials / Solid State

PHYS3003-1	<i>Physics of functional oxides</i> (english language) - Philippe GHOSEZ	Q1	20	10	-	-	<b>4</b>
	<b>Corequisite :</b>						
	PHYS0974-1 - Physique des matériaux et biophysique						
PHYS3004-1	<i>Physics of nanomaterials</i> (english language) - JeanYves RATY	Q2	20	10	-	-	<b>4</b>
	<b>Corequisite :</b>						
	PHYS0974-1 - Physique des matériaux et biophysique						
PHYS3023-1	<i>Physics of magnetic materials</i> (english language) - Eric BOUSQUET	Q2	20	10	-	-	<b>4</b>
	<b>Corequisite :</b>						
	PHYS0974-1 - Physique des matériaux et biophysique						
PHYS0981-1	<i>Quantum modelling of materials properties</i> (english language) - Philippe GHOSEZ	Q1	20	10	-	-	<b>4</b>
	<b>Corequisite :</b>						
	PHYS0974-1 - Physique des matériaux et biophysique						
CHIM0202-2	<i>Physical Chemistry</i> - Christian DAMBLON, Bernard LEYH	Q2	30	-	-	-	<b>4</b>
PHYS0987-1	<i>Physics of materials for energy</i> (english language) - Ngoc Duy NGUYEN - [15h Proj.]	Q1	20	-	[+]	[+]	<b>4</b>
PHYS0988-1	<i>Intrinsic and induced topological properties of matter</i> (english language) - Bertrand DUPÉ	Q2	20	10	-	-	<b>4</b>

# Study programmes 2024-2025

## Faculty of Sciences

### Master in physics, teaching focus

#### **Quantum Physics and Relativity**

PHYS2012-1	<i>Relativistic quantum mechanics and relativistic statistics</i> - Peter SCHLAGHECK	Q1	20	5	-	<b>4</b>
SPAT0012-1	<i>General relativity</i> (english language) - Guillaume MAHLER	Q1	30	10	-	<b>4</b>

#### **Experimental Physics**

PHYS0250-2	<i>Experimental statistical physics</i> - Stéphane DORBOLO <b>Corequisite :</b> PHYS0975-1 - Introduction à la matière molle et aux systèmes complexes	Q2	10	20	-	<b>4</b>
PHYS3019-1	<i>Techniques of experimental physics</i> - Geoffroy LUMAY	Q2	20	20	-	<b>4</b>
PHYS0943-1	<i>Spectroscopy of electronic paramagnetic resonance</i> - Maryse HOEBEKE <b>Corequisite :</b> PHYS0974-1 - Physique des matériaux et biophysique	Q2	15	15	-	<b>4</b>
PHYS0095-1	<i>The physics of accelerators and vacuum technologies</i> - David STRIVAY	Q2	10	10	-	<b>4</b>
PHYS0968-1	<i>Signal processing</i> - Alejandro SILHANEK	Q2	25	20	-	<b>4</b>
PHYS3037-1	<i>Nanofabrication : principles and techniques</i> (english language) - Ngoc Duy NGUYEN, Alejandro SILHANEK <b>Corequisite :</b> PHYS0974-1 - Physique des matériaux et biophysique	Q2	25	15	-	<b>4</b>
PHYS0999-1	<i>Digital creation in sciences</i> - Roland BILLEN, Valentin FISCHER, Pierre MATHONET, JeanChristophe MONBALIU, Eric PARMENTIER, Nicolas VANDEWALLE - [30h Proj.]	TA	10	-	[+]	<b>5</b>

#### **Optics and Imaging**

PHYS0942-3	<i>Ionising radiations and imaging</i> - Alain SERET	Q1	20	5	-	<b>4</b>
PHYS0938-1	<i>Physics and cultural heritage</i> - David STRIVAY	Q1	15	5	-	<b>4</b>
PHYS0048-2	<i>Coherent and incoherent optics</i> (english language) - <i>Coherent optics and lasers applications</i> - Serge HABRAKEN - <i>Laser physics</i> - Serge HABRAKEN	Q1	10	15	-	<b>4</b>
			5	5	-	
PHYS0048-3	<i>Coherent and incoherent optics, Instrumental optics I</i> (english language) - Serge HABRAKEN	Q1	20	15	-	<b>4</b>
PHYS0128-1	<i>Magnetic Resonance Imaging - the Basics</i> (english language) - Laurent LAMALLE - [3d FW]	Q1	15	-	[+]	<b>2</b>
PHYS0125-3	<i>Instrumental optics II</i> (english language) - Serge HABRAKEN <b>Prerequisite :</b> PHYS0048-3 - Coherent and incoherent optics	Q2	25	15	-	<b>4</b>

#### **Applied physics**

INFO0939-1	<i>High performance scientific computing</i> (english language) - Christophe GEUZAINÉ - [20h Proj.]	Q1	30	15	[+]	<b>5</b>
MECA0470-1	<i>New methods in computational mechanics and physics</i> (english language) - Maarten ARNST, Eric BÉCHET, Ludovic NOELS - [40h Proj.]	Q2	20	-	[+]	<b>5</b>
ELEN0062-1	<i>Introduction to machine learning</i> (english language) - Pierre GEURTS, Louis WEHENKEL - [40h Proj.]	Q1	30	5	[+]	<b>6</b>

#### **Didactics**

PHYS0979-1	<i>Conceptual approach to basic physics</i> - Hervé CAPS, Maryse HOEBEKE	Q1	30	-	-	<b>4</b>
AESS0241-1	<i>Introduction to physics didactics</i> - Maryse HOEBEKE	Q1	20	-	-	<b>4</b>

[...] Up to 20 credits (or more, in agreement with the Jury) in the two blocks may also be chosen in another study field or institution

#### **Course Medical Physics**

# Study programmes 2024-2025

## Faculty of Sciences

### Master in physics, teaching focus

QUAL0722-1	<i>Safety and quality assurance</i> (english language) - Edmond STERPIN <b>Prerequisite :</b> SSTG0041-1 - Stages en radiophysique médicale	Q2	5	10	-	<b>2</b>
RADL0442-1	<i>Radiobiology and radiopathology elements</i> - Chantal HUMBLET, Philippe MARTINIVE <b>Prerequisite :</b> BIOL0007-1 - Biologie tissulaire PHYL0644-1 - Anatomie et physiologie humaines ANAT0222-1 - Eléments d'anatomie radiologique	Q1	40	20	-	<b>6</b>
PHYS2024-1	<i>Transfer and co-registration of medical images</i> - Mohamed Ali BAHRI	Q1	15	-	-	<b>2</b>
CHIM0621-2	<i>Production and application of radioelements</i> - Thibault GENDRON - [3d FW]	Q2	15	-	[+]	<b>2</b>

**Bloc d'aménagement du programme de l'année**

### **Additional ECTS (max 15-60) Master in physics (120 ECTS)**

**Optional courses**

The update course, worth a maximum of 60 credits, will be determined based on students' prior training.

[...] Between 15 and 60 ECTS of courses from "Bachelier en sciences physiques"