Study programmes 2016-2017
Faculty of Sciences
Master in physics (60 ECTS)

Block view of the study programme

		Or	Th	Pr	Au	Cr
Block 1						
Compulsory courses						
PHYS0974-1	*Materials physics and biophysics* - Maryse HOEBEKE, Alejandro SILHANEK	Q1	30	-	-	**5**
PHYS0930-1	*Atomic physics* - Thierry BASTIN, John MARTIN	Q1	30	-	-	**5**
PHYS0975-1	*Introduction to soft matter and complex systems* - Nicolas VANDEWALLE	Q1	30	-	-	**5**
SMEM0027-1	*Final thesis* - COLLÉGIALITÉ	TA	-	-	-	**17**
Optional courses						
In agreement with the Jury, choose courses for a total of 28 credits from :						
PHYS0932-1	*Cold atoms and atomic clocks* - Thierry BASTIN	Q2	20	10	-	**4**
PHYS2027-2	*Ultracold atoms and Bose-Enstein condensates* - Peter SCHLAGHECK	Q2	25	-	-	**4**
PHYS0094-1	*Multiphase flows and dynamic interfaces* - Hervé CAPS	Q2	20	10	-	**4**
AESS0241-1	*Introduction to physics didactics* - Maryse HOEBEKE	Q1	20	-	-	**4**
PHYS3035-1	*Coherent optics and lasers applications* (english language) - Serge HABRAKEN	Q1	15	20	-	**4**
PHYS0124-1	*Instrumental optics I* (english language) - Serge HABRAKEN	Q1	20	15	-	**4**
PHYS0969-1	*Introduction to biophotonics* - Laurent DREESEN	Q2	20	10	-	**4**
PHYS0937-1	*Physics of functional oxides* (english language) - Philippe GHOSEZ	Q1	20	10	-	**4**
PHYS0976-1	*Quantum modeling of material properties* (english language) - Philippe GHOSEZ, Matthieu VERSTRAETE	Q1	20	10	-	**4**
PHYS0938-1	*Physics and cultural heritage* - David STRIVAY	Q1	15	5	-	**4**
PHYS0939-2	*Physics of non-linearities, chaos and fractals* - Nicolas VANDEWALLE	Q2	15	15	-	**4**
PHYS2012-1	*Relativistic quantum mechanics and relativistic statistics* - Peter SCHLAGHECK	Q1	20	5	-	**4**
PHYS0250-2	*Experimental statistical physics* - Stéphane DORBOLO	Q1	10	20	-	**4**
PHYS0941-2	*Theoretical physics : Nuclei and particles* - JeanRené CUDELL	Q1	30	-	-	**4**
PHYS0942-3	*Ionising radiations and imaging* - Alain SERET	Q1	20	5	-	**4**
PHYS0943-1	*Spectroscopy of electronic paramagnetic resonance* - Maryse HOEBEKE	Q2	15	15	-	**4**
PHYS0977-1	*Spectroscopy of materials* (english language) - Matthieu VERSTRAETE	Q1	20	10	-	**4**
PHYS0095-1	*The physics of accelerators and vacuum technologies* - David STRIVAY	Q2	10	10	-	**4**
CHIM0202-2	*Physical Chemistry* - Christian DAMBLON, Bernard LEYH	Q2	30	-	-	**4**
SPAT0012-1	*General relativity, Part 1: Introduction* - Yves DE ROP	Q1	20	-	-	**4**
SPAT0012-2	*General relativity, Part 2: Mathematics methods* - Yves DE ROP	Q1	20	-	-	**2**
SPAT0012-3	*General relativity, Part 3: supplement* - Yves DE ROP	Q2	20	-	-	**2**
PHYS0235-2	*Introduction to quantum optics* - John MARTIN	Q2	25	-	-	**4**
PHYS0948-1	*Microgravity* - Hervé CAPS, Nicolas VANDEWALLE - [3d FW]	Q2	10	20	[+]	**4**
PHYS0949-1	*Atomic structures modelling* - Pascal QUINET	Q2	10	10	-	**4**
PHYS0950-1	*Physics of nanomaterials* (english language) - JeanYves RATY	Q1	20	10	-	**4**
PHYS3017-1	*Physical science in an historical perspective* - Martine JAMINON - [1d Vis.]	Q1	30	-	[+]	**4**
PHYS0978-1	*Physics of semi-conductors* - Ngoc Duy NGUYEN	Q1	15	15	-	**4**
PHYS0970-1	*Physics of superconductors* - Alejandro SILHANEK	Q1	15	-	-	**2**

PHYS3019-1	*Techniques of experimental physics* - Geoffroy LUMAY	Q1	20	20	-	**4**
PHYS3020-1	*Digital tools of soft matter* - Geoffroy LUMAY, Eric OPSOMER	Q2	15	15	-	**4**
PHYS3021-1	*Advanced quantum mechanics* - Thierry BASTIN, John MARTIN, Peter SCHLAGHECK	Q1	30	-	-	**4**
PHYS3022-1	*Physics of magnetic materials* (english language) - Eric BOUSQUET	Q2	20	10	-	**4**
PHYS0931-1	*Data processing* - Pierre MAGAIN	Q2	15	30	-	**4**
PHYS0979-1	*Conceptual approach to basic physics* - Hervé CAPS, Maryse HOEBEKE	Q1	30	-	-	**4**

[...] Up to 8 ECTS can be chosen in another study path or in another institution

Bloc d'aménagement du programme de l'année