

MSc-PHYSICS

Majors		Astroparticle & nuclear physics	Condensed matter & nanoscience	Materials, energy & environment	Quantum technologies	Theoretical physics & complex systems
Common activities	30 CFU	Advanced electromagnetism FIS/01				
		Advanced physics laboratory FIS/03				
		Machine learning INF/01				
		Solid state physics FIS/03				
		Theoretical Physics FIS/02				
Characterizing activities	30 CFU	Advanced nuclear physics FIS/04	Advanced spectroscopy FIS/01	Experimental material science FIS/01	Atomic physics FIS/03	Advanced probability and stochastic processes MAT/06
		Astro & particle physics FIS/04	Condensed matter theory FIS/03	Fundamental opf material sciences ING-IND/22	Physics of nanotechnologies FIS/03	Biological physics FIS/03
		Cosmology FIS/05	Experimental nanoscience FIS/01	Physics of nanotechnologies FIS/03	Quantum computation FIS/02	Quantum field theory FIS/02
		Laboratory of astroparticle FIS/01	Physics of nanotechnologies FIS/03	Surface and chemical physics CHIM/02	Quantum optics FIS/03	Quantum information FIS/02
		Quantum field theory FIS/02	Statistical mechanics FIS/02	Synthesis of functional materials FIS/03	Statistical mechanics FIS/02	Statistical mechanics FIS/02
Free choice activities	To choose 12 CFU out of the 24 proposed	Artificial intelligence laboratory FIS/07	Quantum field theory FIS/02	Advanced spectroscopy FIS/01	Artificial intelligence laboratory FIS/07	Advanced mathematical physics MAT/07
		General relativity MAT/05	Quantum optics FIS/03	Energy production & storage CHIM/12	Experimental nanoscience FIS/01	Artificial intelligence laboratory FIS/07
		Quantum information FIS/02	Surface and chemical physics CHIM/02	Environmental remediation CHIM/12	Quantum information FIS/02	Dynamic & stochastic optimization SECS-S/06
		Statistical mechanics FIS/02	Synthesis of functional materials ING-IND/22	Statistical mechanics FIS/02	Biological physics FIS/03	Quantum computation FIS/02
Stage	6 CFU					
Thesis	42 CFU					