DIDATTICA EROGATA (A.A. 2026-27)

Corso di Laurea Magistrale Internazionale in PHYSICS

FIRST YEAR

FIRST YEAR OBBLIGATORI

INSEGNAMENTO	COD. ESAME	TAF	AMBITO DISCIPLINARE	SSD	CFU	Ore					SEMESTER	Docente
						Le	Es	La	Tot	St.I.		
Physics Laboratory	A423184	B	Sperimentale e applicativo	PHYS-01/A	10	**40**		**60**	**100**		ANNUAL	Fabio Marzaioli R (4 CFU) 40 h (2L+2LAB) Raffaele Buompane (6 CFU) 60h (3L+3LAB)
Computational Methods for Physics	A423183	B	Microfisico e della struttura della materia	PHYS-02/A	9	**48**		**36**	**84**		2nd	Nunzio Itaco*

FIRST YEAR GROUP 1

Theoretical Physics	A423178	B	Teorico e dei fondamenti della fisica	PHYS-02/A	8	**56**	**12**		**68**		**1st**	Luigi Coraggio*
Models and tools for weather prediction and climate	A424477	B	Teorico e dei fondamenti della fisica	PHYS-02/A	8	**48**	**24**		**72**		**1st**	Mauro Rubino (4CFU 2 Le) Eugenio Lippiello R (4 CFU 3 Le + 1 Es)

Theory of Quantum Computation Mod. A424478 Principles of Quantum Mechanics for Quantum Computing 2 cfu Mod. A424479 Quantum Computing 6 cfu (6CFU Mutuati da Data Science)	A424450	B	Teorico e dei fondamenti della fisica	PHYS-02/A	8	**48**	**24**		**72**		**2nd**	Giovanni de Gregorio (6CFU Mutuati da Data Science)
Statistical Mechanics	A423179	B	Teorico e dei fondamenti della fisica	PHYS-02/A	8	**48**	**24**		**72**		**2nd**	Eugenio Lippiello* R
FIRST YEAR GROUP 2												
Nuclear and Subnuclear Physics	A423180	B	Microfisico e della struttura della materia	PHYS-01/A	6	**40**	**12**		**52**		1st	Lucio Gialanella* R
Isotope physics and methods	A424480	B	Microfisico e della struttura della materia	PHYS-01/A	6	**40**	**12**		**52**		1st	Fabio Marzaioli
Quantum Electronics	A423533	B	Microfisico e della struttura della materia	PHYS-03/A	6	**40**	**12**		**52**		1st	Livio Gianfrani (3CFU 2 Le +1 Es) Antonio Castrillo R (3CFU 3 Le)
Condensed Matter Physics	A423532	B	Microfisico e della struttura della materia	PHYS-03/A	6	**40**	**12**		**52**		2nd	Luigi Moretti*

Stochastic processes	A423187	B	Microfisico e della struttura della materia	PHYS-04/A	6	**40**	**12**		**52**		2nd	Mutuato da Data Science A423702 Alessandro Sarracino

FIRST YEAR GROUP 3												
INSEGNAMENTO	COD. ESAME	TAF	AMBITO DISCIPLINARE	SSD	CFU	Ore					SEMESTER	Docente
						Le	Es	La	Tot	St.I.		
Introduction to Optical sensing techniques	A424482	C	Affini o Integrative	PHYS-03/A	6	48					2nd	CNR INO (cgrat)
Astrophysics	A423188	C	Affini o Integrative	PHYS-05/A	6	48					2nd	INAF (cgrat)
Ecological climatology	A423189	C	Affini o Integrative	PHYS-06/A	6	48					2nd	Mauro Rubino R (6CFU)
Applied Biophotonics	A424495	C	Affini o Integrative	PHYS-06/A	6	48					2nd	Maria Lepore
Complementary topics of theoretical physics	A425080	C	Affini o Integrative	PHYS-02/A	6	48					2nd	Luigi Coraggio (3CFU) Giovanni de Gregorio (3CFU)
Radiation Biophysics		C	Affini o Integrative	PHYS-06/A	6	48					2nd	Lorenzo Manti
Aerospace physics methodologies	A423195		Affini o Integrative	PHYS-06/A	6	48					2nd	

SECOND YEAR GROUP 3												
INSEGNAMENTO	COD. ESAME	TAF	AMBITO DISCIPLINARE	SSD	CFU	Ore					SEMESTER	Docente
						Le	Es	La	Tot	St.l.		
Photonics and Nanotechnologies	A423191	C	Affini o Integrative	PHYS-03/A	6	48					1st	Luigi Moretti
Modeling of complex systems	A423192	C	Affini o Integrative	PHYS-02/A	6	48					1st	Eugenio Lippiello
Nuclear astrophysics	A423203	D	A scelta libera	PHYS-01/A	6	48					1st	Lucio Gialanella R (3CFU) Raffaele Buompane * (3 CFU)
Aerothermodynamics and thermostructures for aerospace		D	A scelta libera	IIND-01/6	6	48					1st	CIRA (cgrat)
SECOND YEAR GROUP 4												
Advanced experimental techniques for nuclear and particle physics	????	D	A scelta libera	PHYS-01/A	6	48					1st	Daniele Vivolo
Laser spectroscopy	A423199	D	A scelta libera	PHYS-03/A	6	48					1st	Eugenio Fasci (6CFU)
Particle astrophysics	A423193	C	Affini o Integrative	PHYS-01/A	6	48					2nd	INFN (cgrat)
Microscopic Nuclear Structure	A423535	D	A scelta libera	PHYS-02/A	6	48					1st	Luigi Coraggio (3CFU) Giovanni de Gregorio (3CFU)
Physics of the Sun and of the heliosphere	A424005	D	A scelta libera	PHYS-05/A	6	48					1st	INAF (cgrat)

Astrophysics of Galaxies	A424006	D	A scelta libera	PHYS-05/A	6	48					1st	INAF (cgrat)
Astrophysical Techniques		D	A scelta libera	PHYS-05/A	6	48					1st	INAF (cgrat)
Experimental Gravitation		D	A scelta libera	PHYS-05/A	6	48					1st	INAF (cgrat)
Advanced and Computational Solid State Physics		D	A scelta libera	PHYS-04/A	6	48					1st	CNR-SPIN (cgrat)
Physics for Archaeology and Cultural heritage		D	A scelta libera	PHYS-06/A	6	48					2nd	Fabio Marzaioli (3 CFU) Carlo Sabbarese (3 CFU)
Aerospace Propulsion and plasma physics		D	A scelta libera	IIND-01/6 PHYS-03/A	6	48					1st	CIRA (cgrat)
Space access and Earth observation		D	A scelta libera	IIND-01/6 PHYS-05/A	6	48					1st	CIRA (cgrat)