

Physics and Astronomy - 42nd cycle

course	SSD	Type of activity	language	hrs	credits	year of attendance	final test	optional/ mandatory
ADVANCED DEVELOPMENT IN PHYSICS	PHYS-02/A	lesson (seminars)	English	16	2	1 st	YES	optional
ADVANCED DEVELOPMENTS IN PHYSICS B	PHYS-01/A	lesson (seminars)	English	16	2	2 nd	YES	optional
ADVANCED PLASMA PHYSICS: WAVES IN INHOMOGENEOUS PLASMAS AND KINETIC DESCRIPTION	PHYS-03/A	lesson	English	16	2	1 st	YES	optional
ADVANCED THEORETICAL PHYSICS A	PHYS-02/A	lesson	English	16	2	1 st	YES	optional
ADVANCED THEORETICAL PHYSICS B	PHYS-02/A	lesson	English	16	2	2 nd	YES	optional
ADVANCED TOPICS ON MICROELECTRONICS	IINF-01/A	lesson	English	16	2	1 st	YES	optional
COLD ATMOSPHERIC PLASMA APPLICATIONS IN LIFE SCIENCES	PHYS-03/A	lesson	English	8	1	2 nd	YES	optional
CURRENT AND FUTURE CHALLENGES IN GRAVITATIONAL-WAVE ASTRONOMY	PHYS-05/A	lesson	English	16	2	2 nd	YES	optional
CURRENT TOPICS IN PHYSICS A	PHYS-01/A	lesson (seminars)	English	8	1	1 st	YES	optional
CURRENT TOPICS IN PHYSICS B	PHYS-01/A	lesson (seminars)	English	8	1	2 nd	YES	optional
DEEP LEARNING FOR PHYSICISTS	INFO-01/A	lesson	English	16	2	1 st	YES	optional
DEEP LEARNING FOR PHYSICISTS B	INFO-01/A	lesson	English	16	2	2 nd	YES	optional
DETECTION OF GRAVITATIONAL WAVES	PHYS-01/A	lesson	English	16	2	2 nd	YES	optional
DIGITAL SIGNAL PROCESSING FOR NUCLEAR PHYSICS	IINF-01/A	lesson	English	16	2	1 st	YES	optional
EFFECTIVE FIELD THEORY	PHYS-01/A	lesson	English	16	2	1 st	YES	optional
ELECTRONICS FOR PHYSICISTS	IINF-01/A	lesson	English	16	2	2 nd	YES	optional
FPGA PROGRAMMING	INFO-01/A	lesson	English	16	2	2 nd	YES	optional
GALAXY EVOLUTION IN COSMIC STRUCTURES A	PHYS-05/A	lesson	English	16	2	1 st	YES	optional
GALAXY FORMATION AND EVOLUTION IN COSMIC STRUCTURES B	PHYS-05/A	lesson	English	16	2	2 nd	YES	optional
GEANT4	PHYS-01/A	lesson	English	8	1	2 nd	YES	optional
IMAGING MEDICO	PHYS-06/A	lesson	English	16	2	1 st	YES	optional
INTRODUCTION TO (FUN) SCIENCE COMMUNICATION A	PHYS-06/B	lesson	English	8	1	1 st	YES	optional

INTRODUCTION TO (FUN) SCIENCE COMMUNICATION B	PHYS-06/B	lesson	English	8	1	1 st	YES	optional
INTRODUCTION TO PLASMA BOUNDARY IN FUSION DEVICES	PHYS-03/A	lesson	English	16	2	2 nd	YES	optional
INTRODUCTION TO QUANTUM COMPUTING AND QUANTUM ALGORITHMS	INFO-01/A	lesson	English	16	2	1 st	YES	optional
MICROWAVE ENGINEERING	PHYS-05/A	lesson	English	16	2	2 nd	YES	optional
MODERN SCIENTIFIC PROGRAMMING A	INFO-01/A	lesson	English	16	2	1 st	YES	optional
MODERN SCIENTIFIC PROGRAMMING B	INFO-01/A	lesson	English	16	2	2 nd	YES	optional
NUMERICAL METHODS FOR ASTROPHYSICS	PHYS-05/A	lesson	English	8	1	2 nd	YES	optional
PHYSICS AT COLLIDERS	PHYS-01/A	lesson	English	16	2	2 nd	YES	optional
PRECISION COSMOLOGY: THE CMB POLARISATION QUEST	PHYS-05/A	lesson	English	16	2	1 st	YES	optional
NON LINEAR EXCITATION FOR IMAGING TECHNIQUES	PHYS-03/A	lesson	English	8	1	1 st	YES	optional
RECENT DEVELOPMENTS IN PHYSICS	PHYS-01/A	lesson (seminars)	English	8	1	1 st	YES	optional
RECENT DEVELOPMENTS IN PHYSICS B	PHYS-01/A	lesson (seminars)	English	8	1	2 nd	YES	optional
RECENT DEVELOPMENTS IN PLASMA PHYSICS	PHYS-01/A	lesson	English	8	1	1 st	YES	optional
SCIENTIFIC COMPUTING WITH PYTHON	INFO-01/A	lesson	English	16	2	1 st	YES	optional
STATUS AND PERSPECTIVES OF ASTROPARTICLE PHYSICS	PHYS-01/A	lesson	English	16	2	1 st	YES	optional
THEORETICAL HIGH ENERGY PHYSICS	PHYS-02/A	lesson	English	16	2	1 st	YES	optional
THEORETICAL HIGH ENERGY PHYSICS B	PHYS-02/A	lesson	English	16	2	2 nd	YES	optional
TOPICS ON MICROELECTRONICS	IINF-01/A	lesson	English	16	2	1 st	YES	optional
Total hrs/credits				552	69			