

PHYSICS AND ASTRONOMY

course	SSD	Type of activity	language	hrs	credits	year of attendance	final test	optional/mandatory
COLD ATMOSPHERIC PLASMA APPLICATIONS IN LIFE SCIENCES	FIS/03	lesson	English	8	1	1 st	yes	optional
ADVANCED THEORETICAL PHYSICS A	FIS/02	lesson	English	16	2	2 nd	yes	optional
ADVANCED THEORETICAL PHYSICS B	FIS/02	lesson	English	16	2	1 st	yes	optional
CURRENT AND FUTURE CHALLENGES IN GRAVITATIONAL-WAVE ASTRONOMY	FIS/05	lesson	English	16	2	1 st	yes	optional
GALAXY EVOLUTION IN COSMIC STRUCTURES A	FIS/05	lesson	English	16	2	2 nd	yes	optional
GALAXY EVOLUTION IN COSMIC STRUCTURES B	FIS/05	lesson	English	16	2	1 st	yes	optional
PHYSICS AT COLLIDERS	FIS/01	lesson	English	16	2	1 st	yes	optional
EFFECTIVE FIELD THEORY	FIS/01	lesson	English	16	2	2 nd	yes	optional
SCIENTIFIC COMPUTING WITH PYTHON	ING-INF/01	lesson	English	16	2	1 st	yes	optional
DEEP LEARNING FOR PHYSICISTS	ING-INF/01	lesson	English	16	2	2 nd	yes	optional
ELECTRONICS FOR PHYSICISTS	ING-INF/01	lesson	English	16	2	1 st	yes	optional
TOPICS ON MICROELECTRONICS	ING-INF/01	lesson	English	16	2	1 st	yes	optional
ADVANCED TOPICS ON MICROELECTRONICS	ING-INF/01	lesson	English	8	1	1 st	yes	optional
INTRODUCTION TO PLASMA BOUNDARY IN FUSION DEVICES	FIS/03	lesson	English	16	2	1 st	yes	optional
ADVANCED PLASMA PHYSICS: WAVES IN INHOMOGENEOUS PLASMAS AND KINETIC DESCRIPTION	FIS/03	lesson	English	16	2	2 nd	yes	optional
PRECISION COSMOLOGY: THE CMB POLARIZATION QUEST	FIS/05	lesson	English	16	2	2 nd	yes	optional
PHOTONICS FRONTIERS: NAVIGATING THE LASER LANDSCAPE IN PHYSICS	FIS/07	lesson	English	8	1	2 nd	yes	optional
IMAGING MEDICO	FIS/07	lesson	English	16	2	2 nd	yes	optional
DIGITAL SIGNAL PROCESSING FOR NUCLEAR PHYSICS	ING-INF/01	lesson	English	16	2	2 nd	yes	optional
STATUS AND PERSPECTIVES OF ASTROPARTICLE	FIS/01	lesson	English	16	2	2 nd	yes	optional
RECENT DEVELOPMENTS IN PARTICLE PHYSICS	FIS/01	lesson	English	8	1	1 st	yes	optional
RECENT DEVELOPMENTS IN PLASMA PHYSICS	FIS/01	lesson	English	8	1	1 st	yes	optional
INTRODUCTION TO (FUN) SCIENCE COMMUNICATION A	FIS/01	lesson	English	8	1	2 nd	yes	optional
INTRODUCTION TO (FUN) SCIENCE COMMUNICATION B	FIS/01	lesson	English	8	1	2 nd	yes	optional

RECENT DEVELOPMENTS IN EXPERIMENTAL PHYSICS	FIS/07	lesson	English	8	1	1 st	yes	optional
FPGA PROGRAMMING	FIS/01	lesson	English	8	1	1 st	yes	optional
INTRODUCTION TO QUANTUM COMPUTING AND QUANTUM ALGORITHMS	FIS/02	lesson	English	16	2	2 nd	yes	optional
GEANT4	FIS/01	lesson	English	8	1	1 st	yes	optional
ADVANCED C++	ING-INF/01	lesson	English	8	1	1 st	yes	optional
MICROWAVE ENGINEERING	ING-INF/01	lesson	English	8	1	1 st	yes	optional
DETECTION OF GRAVITATIONAL WAVES	FIS/01	lesson	English	16	2	1 st	yes	optional
NUMERICAL METHODS FOR ASTROPHYSICS	FIS/05	lesson	English	8	1	1 st	yes	optional
PRINCIPLES OF LASER PHYSICS AND NON-LINEAR OPTICS	FIS/07	lesson	English	8	1	1 st	no	optional
THEORETICAL PHYSICS	FIS/02	lesson	English	8	1	1 st	no	optional
SUBNUCLEAR PHYSICS	FIS/04	lesson	English	8	1	1 st		optional
ASTROPHYSICS	FIS/05	lesson	English	8	1	1 st		optional
PLASMA PHYSICS	FIS/03	lesson	English	8	1	1 st		optional
BIOPHYSICS	FIS/07	lesson	English	8	1	1 st		optional
APPLIED PHYSICS	FIS/07	lesson	English	8	1	1 st		optional
THEORETICAL HIGH ENERGY PHYSICS	FIS/02	lesson	English	16	2	2 nd	yes	optional
ADVANCED DEVELOPMENT IN PHYSICS	FIS/02	lesson	English	16	2	2 nd	no	optional
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