

Syllabus

Semester / Module / Courses	1 academic year = 60 Credits Units (ECTS)	Coef.	Hours	Page
Semester 1				
Module : Optical Sciences	Credits Units (ECTS) = 30			
Optics Labwork - half-term 1		3	27,0 h	003
Photometric Engineering		3	30,0 h	004
Interaction between Light and Atoms		3	30,0 h	005
Object-Oriented Programming in C++		3	48,0 h	006
Optical Surfaes. Optomechanics		3	30,0 h	007
Optical Telecommunications		3	30,0 h	008
Optical Microsystems		3	30,0 h	009
Pattern Recognition		3	18,0 h	010
Advanced Optical Fiber		3	15,0 h	011
XUV Optics		3	18,0 h	012
IET - Engineering		3	30,0 h	013
Optics Labwork - half-term 2		3	27,0 h	014
Display Systems		3	15,0 h	015
Radar		3	15,0 h	016
Noise in Optical Detection		3	16,5 h	017
Diffusion of Electromagnetic Field		3	18,0 h	018
Signal and Image Processing		3	30,0 h	019
Advanced Photonics		3	30,0 h	020
Laser Technology		3	30,0 h	021
Image and Signal Processing		6	60,0 h	022
Thin Films Optics		3	30,0 h	023
Atoms and Molecules in Intense Field		3	30,0 h	024
Light and Matter in the Universe		3	30,0 h	025
Quantum Physics of Complex Systems		3	30,0 h	026
Recent Experiments in Atomic Physics and Quantum Optics		3	30,0 h	027
Simple Quantum Systems		3	30,0 h	028
Photonics Function and integration		3	30,0 h	029
High Resolution Imaging		3	31,5 h	030
Quantum Optics		3	30,0 h	031
Nanophotonics		3	30,0 h	032
Near Field Microscopy		3	30,0 h	033
Quantum and Statistical Physics		3	18,0 h	034
Laser Physics		3	30,0 h	035
Optoelectronics in Semi-Conductors		3	30,0 h	036
Solid State Optics		3	30,0 h	037
Biophotonics		3	30,0 h	038
Optical System Design		3	30,0 h	039
Nonlinear Electromagnetism		3	30,0 h	040
Module : Transferable Skills	Credits Units (ECTS) = 10			
TOEIC		0	20,0 h	041
Communication Skills		2	9,0 h	042
English - Topics		2	20,0 h	043
Analysis of an Industrial Sector for Positioning of a Product		2	15,0 h	044
Labour and Contract Law		2	9,0 h	045
Intellectual Property		2	15,0 h	046
Project Management		2	15,0 h	047
IET - International		2	30,0 h	048
IET - 3rd Evaluation		6	150,0 h	049
CFA - Assessment 2		8	200,0 h	050
Semester 2				
Module : CFA (Co-op) - Transferable Skills	Credits Units (ECTS) = 10			
CFA - Project Management		2	18,0 h	051
CFA - Intellectual Property		2	15,0 h	052
CFA - Labour Law		2	9,0 h	053
CFA - Company Finance		2	9,0 h	054
CFA - Business Game		2	21,0 h	055
Module : Student - Internship	Credits Units (ECTS) = 30			
Master Internship		30	385,0 h	056
Module : IET - Project	Credits Units (ECTS) = 10			
IET - 4th Evaluation		10	220,0 h	057
Module : CFA (Co-op) - Transferable Skills (from company)	Credits Units (ECTS) = 20			
CFA - Assessment 3		6	200,0 h	058
CFA - Final Assessment		14	400,0 h	059

