

EUROPEAN MASTER ON FUSION SCIENCES AND ENGINEERING PHYSICS – FUSION EP

PROGRAMM 1st YEAR – academic year 2019/20

	AMU		UCM / UC3M		U Gent		U Lorraine		U Stuttgart	
FIRST YEAR	Statistical Physics	6	Classical Electrodynamics	6	Applied Electromagnetism	6	Computational Physics	6	Plasma Physics I	3
	Quantum Mechanics	6							Plasma Physics II	3
	Mathematics for Physics	4	Computational Physics	6	Computational Solutions of Wave Problems	6	Atomic and Molecular Physics	6	Fusion Research	3
	Electromagnetism and Optics	4	Introductory Atomic and Molecular Physics	6	Atomic and Molecular Physics	6	Instrumentation and Signal Processing	6	Numerical Plasma Physics I	3
	Laboratory and Computer Work	8	Plasma Physics	6	Plasma Physics	6	Fundamentals of Plasma Physics	6	Numerical Plasma Physics II	3
	Plasma Physics	4	Experimental Techniques in Plasmas, Nuclear Physics and Materials	6	Continuum Mechanics	6	Mechanics of Continuous Media	6	Advanced Lab Course	12
	Charged Fluids Dynamics	4	Fluid Dynamics	6	Cross-Course Project	6				
	Scientific Watch	2	Laboratory Project	6	Nuclear Instrumentation	6	Classical Electrodynamics, Waves, Antenna and Emission Processes	6	Advanced Experimental Physics	9
	Short internship	4					Lab Project	6	Microwave Technology	3
	Language & Culture	6	Language & Culture	6	Language & Culture	6	Language & Culture	6	Language & Culture	6
First year elective courses (12 ETCS)									First year elective courses (15 ECTS)	