

UNIVERSITY OF CRAIOVA
 Faculty of Mathematics and Natural Sciences
 Department: Physics (D2)
 Hierarchical domain: Physics
 Programme of studies: Applied Physics (MAPH)
 Duration of studies: 2 years
 Full-time course

Approved starting with
 the academic year 2015-2016

Sem. I		Sem. II
14	Weeks no./sem. if ≠ 14	14

CURRICULUM-First year (2015-2016)

Subject	Cod	A S C	OB OP F	Opt. 0/≥1	C1	S1	L1	P1	CT1	FV1	C2	S2	L2	P2	CT2	FV2
MANDATORY AND OPTIONAL SUBJECTS																
Nonlinear Dynamical Systems	D2MAPHM101	S	OB	1	2	2			9	E						
Many-particle physics	D2MAPHM102	S	OB	1	2	2			9	E						
Laser matter interaction	D2MAPHM103	S	OB	1	2		2		9	E						
Scientific research laboratory I	D2MAPHM104	S	OB	1			2		3	V						
Optics of anisotropic materials	D2MAPHM205	S	OB	1							2		2		9	E
Advanced semiconductors, dielectrics and ferroelectrics	D2MAPHM206	C	OB	1							2		2		9	E
NMR and electron microscopy	D2MAPHM207	C	OB	1							2		2		9	E
Scientific research laboratory II	D2MAPHM208	C	OB	1									2		3	V
TOTAL					6	4	4	0	30		6	0	8	0	30	
FACULTATIVE SUBJECTS																
TOTAL					0	0	0	0	0		0	0	0	0	0	

Sem. I		Sem. II
14	Weeks no./sem. if ≠ 14	14

CURRICULUM-Second year (2015-2016)

Subject	Cod	A S C	OB OP F	Opt. 0/≥1	C1	S1	L1	P1	CT1	FV1	C2	S2	L2	P2	CT2	FV2
MANDATORY AND OPTIONAL SUBJECTS																
Electromagnetic interactions in material media	D2MAPHM301	S	OB	1	2	2			9	E						
Methods and multiscale problems in numerical simulations	D2MAPHM302	S	OB	1	2		2		9	E						
Nonlinear optics/Investigation methods applied in medical imaging/Non-polluting technologies/Physics of the Earth and its atmosphere	D2MAPHM303/D2MAPHM304/D2MAPHM305/D2MAPHM306	A	OP	1	2		1		8	E						
Scientific research laboratory III	D2MAPHM307	A	OB	1			3		4	V						
Kinetic equations	D2MAPHM408	C	OB	1							2	2			9	E
Plasma physics and materials processing/Physical bases of the applications of the lasers in medicine/Risk factors, environmental remediation and restoration/Global warming and climate changes	D2MAPHM409/D2MAPHM410/D2MAPHM411/D2MAPHM412	A	OP	1							2		1		8	E
Methods and techniques for nanomaterial characterization/Elements of hadrontherapy/Green energy sources/Diffusion of pollutants in the atmosphere	D2MAPHM413/D2MAPHM414/D2MAPHM415/D2MAPHM416	A	OP	1							2		1		8	E
Elaboration of master dissertation	D2MAPHM417	A	OB	1										4	5	V
TOTAL					6	2	6	0	30		6	2	2	4	30	
FACULTATIVE SUBJECTS																
TOTAL																
					0	0	0	0	0		0	0	0	0	0	