

ALEXANDRU IOAN CUZA UNIVERSITY FROM IAȘI
 FACULTY OF PHYSICS
 DOCTORAL SCHOOL
 DOCTORAL DOMAIN: **Physics**
 Title obtained: **Doctor in Physics**
 Period of study: **3 years**
 Mode of study : **ON CAMPUS**
 Year of study: **I**
 Semester:**I**

STUDY PROGRAM
ADVANCED PROGRAM OF UNIVERSITY EDUCATION
 Academic year **2022/2023**

Nr. crt.	Compulsory courses	Total hours of courses	Examination form	Number of credits
1	Ethics and academic integrity	8	Exam	4
2	Scientific research methodology and statistical data processing	4	Exam	2
	Optional courses			
1	Plasma processes for experimental astrophysics and self-organization	12	Exam	4
2	Special chapters of theoretical physics	12	Exam	4
3	Investigation techniques for the study of molecular structures	12	Exam	4
4	Advanced materials for functional applications	12	Exam	4
5	Electrical properties of the materials	12	Exam	4
6	Applications of plasma and laser radiation in medicine and environment science	12	Exam	4
7	Fundamentals of mathematical physics	24	Exam	8
8	Physics of materials I (dielectrics, magnetic materials)	24	Exam	8
9	Advanced techniques for materials preparation	24	Exam	8
10	Modeling of physical processes	24	Exam	8
11	Physics of nonlinear phenomena	24	Exam	8
12	Transfer phenomena	24	Exam	8
13	Plasma sources. Plasma diagnostics	24	Exam	8
14	Nanoelectronics	24	Exam	8

HEAD OF INSTITUTION,
 Prof. univ. dr. Tudorel TOADER

DEAN,
 Prof. univ. dr. habil. Cristian ENĂCHESCU

DIRECTOR OF DOCTORAL SCHOOL,
 Prof. univ. dr. Diana MARDARE