ALEXANDRU IOAN CUZA UNIVERSITY FROM IAŞI

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 UNIVERSITARY EDUCATION

Academic year 2023/2024

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		Exam	
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 (dielectrics, magnetic materials)	24	Exam	8
9	Virtual Instrumentation	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	Design of computer algorithms	24	Exam	8
14	Composite materials: design, physico-chemical properties and applications	24	Exam	8
15	Advanced Modeling Methods	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