

CURRICULUM FOR THE DOCTORAL PROGRAM

“PHYSICS OF WAVE PROCESSES”

Field of Higher Education:	4. NATURAL SCIENCES, MATHEMATICS AND INFORMATICS
Professional Field:	4.1. PHYSICAL SCIENCES
Educational and Scientific Degree:	PhD
Form of Study:	full-time / part-time / independent
Duration of Study:	3 years / 4 years / 5 years

A. Educational program

Minimum required credits: 130 points

№	Course Title	Hours	Points
I. Basic curriculum in the field of the doctoral program			
1.	Individual specialized training ¹ Doctoral minimum	-	40
II. Group curriculum			
2.	General specialized training (course with a general foundational character related to the dissertation topic or providing knowledge in an interdisciplinary field close to the dissertation area)	30	20
3.	General specialized training (course with a general foundational character related to the dissertation topic or providing knowledge in an interdisciplinary field close to the dissertation area)	30	20
4.	General academic language training, provided by the Foreign Language Training Sector of the Doctoral School at the Central Administration of BAS ²	120	25
5.	General academic computer skills training, provided by the Doctoral School at the Central Administration of BAS ^{3,4}	30	25
6.			
7.			
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TOTAL:			min. 130
Notes: ¹ The individual specialized training in the field of the doctoral program is conducted within the primary unit to which the doctoral student is assigned and is mandatory for all forms of study. ² Language training courses are not mandatory for doctoral students who have a good command of English. They are allowed to take a direct examination at the Center for Training (CT). For doctoral students at BAS, only certificates for successfully passed exams issued by the CA of BAS are recognized. ³ Doctoral students are provided with a list of courses and, together with their academic supervisors (consultants), select the appropriate course. ⁴ A doctoral student who possesses the necessary knowledge may take a direct examination at the CT and obtain the corresponding certificate. For doctoral students at BAS, only certificates issued by the CT are recognized.			

B. Research activities

№	Categories and Subcategories of Activities	Points
I. Work on the Dissertation – Plan and Stages of Preparation		
1.	Analysis of the state of the problem – preparation of a literature review	-
2.	Formulation of a scientific hypothesis	-
3.	Definition of objectives and tasks	-
4.	Theoretical, clinical, and/or experimental research	-
5.	Formulation of conclusions based on the conducted research	-
6.	Summarizing results, formulating overall conclusions and contributions	-
7.	Final preparation of the dissertation	-
II. Participation in Scientific Forums <i>(Minimum required: 40 points)</i>		
1.	Presentation at a scientific seminar of the Institute of Optical Materials and Technologies (Colloquium)	8
2.	Presentation at a national scientific event	24
3.	Presentation at an international scientific event abroad / international scientific event in Bulgaria	32
4.		
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TOTAL:		min. 40
III. Publication Activity (Publications of scientific results related to the dissertation topic) <i>(30 points for PhD students enrolled after 01.01.2019) ^{5,6}</i>		
1.	Scientific publications in journals that are peer-reviewed and indexed in world-renowned databases of scientific information (Web of Science and Scopus)	25 Publication in Q1 20 Publication in Q2 15 Publication in Q3 12 Publication in Q1 10 Publication in a journal with SJR but without IF
2.		
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TOTAL:		min. 30
Notes: ⁵ The points related to publications of scientific results on the dissertation topic must comply with the minimum requirements by scientific fields, as stated in the “REGULATIONS ON THE CONDITIONS AND PROCEDURES FOR THE ACQUISITION OF ACADEMIC DEGREES AND FOR HOLDING ACADEMIC POSITIONS AT THE BULGARIAN ACADEMY OF SCIENCES”, adopted by Decision of the General Assembly of BAS on 20.05.2024. The table lists only the points for publications in journals that are referenced and indexed in internationally recognized scientific databases (Web of Science and Scopus). For other categories of publications and patents, see the Regulations. ⁶ The mandatory minimum for doctoral students enrolled before 01.01.2019 is 2 publications and 80 points.		

C. PROJECT ACTIVITY

№	Categories and Subcategories of Activities	Points
I. Participation in Project Activities ⁷		
1.	Participation in projects supporting doctoral students	-
2.	Participation in national projects	-
3.	Participation in international projects	-
Забележка: ⁷ No points are awarded in this category.		

D. DISSERTATION DEFENSE

№	Categories and Subcategories of Activities	Points
I. Dissertation Defense ⁸		
1.	Preparation of a draft dissertation and a draft abstract	-
2.	Registration with the right to defend	
3.	Final defense	
Note: ⁸ According to the Regulations for the Implementation of the Law on the Development of the Academic Staff in the Republic of Bulgaria, the number of points awarded for the dissertation when conferring the educational and scientific degree "PhD" is 50 points, but these points are not included in the credit system used during doctoral training.		

DISTRIBUTION OF THE MINIMUM NUMBER OF POINTS FOR ACTIVITIES (A and B) BY YEARS FOR FULL-TIME STUDY (RECOMMENDED)

N	MODULE	POINTS	DISTRIBUTION OF POINTS BY YEARS		
			1-st	2-nd	3-rd
1.	A	130	90	40	-
2.	B II	40	-	20	20
3.	B III	30	-	min. 15	min. 15
TOTAL:		200			

DISTRIBUTION OF THE MINIMUM NUMBER OF POINTS FOR ACTIVITIES (A and B) BY YEARS FOR PART-TIME STUDY (RECOMMENDED)

N	MODULE	POINTS	DISTRIBUTION OF POINTS BY YEARS			
			1-st	2-nd	3-td	4-th
1.	A	130	50	40	40	-
2.	B II	40	-	20	20	-
3.	B III	30	-	min. 15	min. 15	-
TOTAL:		200				

DISTRIBUTION OF POINTS FOR ACTIVITIES (A and B) BY YEARS FOR INDEPENDENT STUDY (RECOMMENDED)

N	MODULE	POINTS	DISTRIBUTION OF POINTS BY YEARS				
			1-st	2-nd	3-td	4-th	5-th
1.	A	130	50	40	40	-	-
2.	B II	40	-	10	10	20	-
3.	B III	30	-	min. 10	min. 10	min. 10	-
TOTAL:		200					