

EDUCATIONAL PLAN

**of the PhD program "Processes and Apparatuses in Chemical and Biochemical
Technology"
Professional field 4.2 "Chemical Sciences"
at the Institute of Chemical Engineering at Bulgarian Academy of Sciences (IChE-BAS)**

The educational program covers the following types of study:

- (1) Individual specialized study at the IChE - BAS, where the doctoral student is enrolled;
- (2) General specialized study in scientific fields - jointly by the IChE - BAS and the Doctoral School at the PhD Training Center (TC) at BAS;
- (3) General academic study for acquiring language and computer skills - by the Doctoral School at the PhD Training Center (TC) at BAS.

The training of doctoral students is carried out in accordance with the credit system of the Doctoral School (see Appendix No. 2 of the REGULATIONS for the activities of the PhD Training Center (TC) and the Academic Council (AC) at the Bulgarian Academy of Sciences), which provides for a mandatory minimum number of credits per activity. In order to be admitted to the pre-defense of the dissertation, the doctoral student must have earned a minimum of 200 credits.

I. Educational program (mandatory minimum of 130 points)

- I.1. Exam in a basic specialized subject/thesis defense before committee in the Colloquium of the IChE on a topic related to the topic of the dissertation (doctoral minimum in the specialty) - minimum 1 (40 points)
- I.2. Training and exams in elective specialized courses for the implementation of general basic training in the relevant scientific field or in an interdisciplinary field related to the topic of the dissertation (minimum 2 courses of 20 points, total: 40 points)
- I.3. Course and exam in foreign language training (25 points)
- I.4. Exam in computer skills (25 points)
- I.5. Other exams (optional)

II. Scientific program

- II. 1. Reporting to scientific forums of scientific results on the topic of the dissertation (mandatory minimum of 40 points):
 - II.1.1. Report to a scientific seminar (Colloquium of the IChE) – 8 points;
 - II.1.2. Report to a scientific forum in Bulgaria – 24 points;
 - II.1.3. Report to a scientific forum abroad or to an international scientific forum in Bulgaria – 32 points

II.2. Publications of scientific results on the topic of the dissertation (Mandatory minimum of two publications, one of which in a journal with impact factor or impact rang SJR and 30 points)
Scientific publications that are referenced and indexed in WoS/Scopus

Q1 – 25 points

Q2 – 20 points

Q3 – 15 points

Q4 – 12 points

publication with SJR without impact factor – 10 points.

Published chapter of a book or collective monograph – 15 points.

Invention, patent or utility model for which a protected document has been issued in accordance with the due process – 25 points.

Published application for a patent or utility model – 15 points.

III. Work on the dissertation

Literature review and methodological preparation

Conducting experimental research and theoretical analyses

Structuring the dissertation. Writing and editing the dissertation

Additional information on the websites of the Doctoral School in the PhD Training Center at Bulgarian Academy of Sciences (www.edu.bas.bg) and IChE-BAS (www.iche.bas.bg).

Approved by decision of the National Council of IChE-BAS with protocol №3 of 09.02.2026.

Director:

Prof. DSc. Kaloyan Petrov

