



Pannon Egyetem
University of Pannonia

DOCTORAL SCHOOL OF CHEMISTRY AND ENVIRONMENTAL SCIENCES

Rules and Regulations of the Doctoral Programme

Published by the Doctoral School of Chemistry and Environmental Sciences, Faculty of Engineering

Date of effect: 13th February 2026

In effects until revoked.

TABLE OF CONTENTS

PREAMBLE	3
GENERAL PROVISIONS.....	4
1. § INTRODUCTION	4
ORGANISATIONAL FRAMEWORK OF THE DOCTORAL SCHOOL.....	4
2. § MEMBERS OF THE DOCTORAL SCHOOL.....	4
3. § THE DOCTORAL PROGRAMME AND HABILITAION COUNCIL (DPHC)	6
4. § FORUM OF THE DSCES	7
5. § RESEARCH FACILITIES AND RESEARCH DISCIPLINES OF THE DSCES	7
DOCTORAL PROGRAMME PROCEDURES OF THE DSCES.....	9
6. § ADMISSION AND ELIGIBILITY	9
7. § STUDY AND EXAMINATION SYSTEM AT THE DSCES.....	11
8. § PROCEDURES FOR OBTAINING A DOCTORAL DEGREE	12
APPENDIXES	
APPENDIX 1 CORE MEMBERS OF THE DSCES	16
APPENDIX 2 LECTURERS OF THE DSCES	17
APPENDIX 3 MEMBERS OF THE DOCTORAL PROGRAMME AND HABILITATION COUNCIL OF DSCES	19
APPENDIX 4 PERSONAL DATA SHEET	20
APPENDIX 5 RESEARCH TOPIC OF THE DSCES.....	22
APPENDIX 6 LIST OF SUBJECTS OF THE COMPREHENSIVE/COMPLEX EXAM OF THE DSCES.....	23
APPENDIX 7 FORMAL REQUIREMENTS FOR DOCTORAL THESES AND ABSTRACT BOOKLETS.....	25
APPENDIX 8 TEMPLATE OF THE 3RD PAGE OF THE DISSERTATION	29
APPENDIX 9 TEMPLATE OF THE STUDY AND RESEARCH PLAN	32

PREAMBLE

The Doctoral School of Chemistry and Environmental Sciences (DSCES) was established at the University of Pannonia on October 9, 2009, by merging two doctoral schools, i.e. the Doctoral School of Chemical Sciences and the Doctoral School of Environmental Sciences.

The Doctoral School of Chemistry and Environmental Sciences was accredited by the Hungarian Accreditation Committee (hereinafter HAC) in compliance with the Decree 2020/8/VII/3 until September 25, 2025, then it was approved the extension of the deadline until September 30, 2026 with the Decree 2025/2/X (March 21, 2025).

The Rules and Regulations of the Doctoral School of Chemistry and Environmental Sciences incorporate the following legal Acts and Government Decrees:

- Act CCIV of 2011 National Higher Education (hereinafter NHEA)
- Government Decree 387/2012 (XII.19.) (modified on April 26, 2013) on Doctoral Schools, doctoral procedures and habilitation
- resolutions of the HAC
- Doctoral Rules and Regulations of the University of Pannonia.

GENERAL PROVISIONS

1. § Introduction

- (1) The Doctoral School (hereinafter DS), including various organizational units of the university, is an educational institution, operating with the approval of the University and the HAC, in which preparatory training for obtaining an academic degree is provided. Other higher education institutions or research institutes outside the DS may also associate with the doctoral school.
- (2) The official name of the DS: Doctoral School of Chemistry and Environmental Sciences (hereinafter DSCES), operating at the Faculty of Engineering, University of Pannonia.
- (3) The minimum personnel conditions set forth in the establishment of the school and by the accreditation must be met at all times.
- (4) Based on the resolution of the UDHC, the DS shall develop its internal operating rules in such a way that they successfully contribute to the high quality of training and obtaining a doctoral degree. It shall also be ensured that all doctoral students have access to the full intellectual properties and facilities of the school to be able to carry out research.
- (5) When devising the Doctoral Rules and Regulations of the DSCES, the Doctoral Rules and Regulations of the University of Pannonia should be considered along with other decisions.

ORGANISATIONAL FRAMEWORK OF THE DOCTORAL SCHOOL

2. § Members of the Doctoral School

- (1) Head of the Doctoral School
 - a) The head of the DS is appointed or dismissed by the Rector with regard to the proposal of the UDHC and approval of HAC.
 - b) The head of the DS is responsible for maintaining the quality of academic and scientific work of the school.
 - c) The head of the DS is elected by the core members of the doctoral school for the period of five years.
 - d) The work of the head of the school is assisted by the Doctoral Programme and Habilitation Council (hereinafter DPHC).
- (2) Secretary of the Doctoral School
 - a) The secretary of the DS is appointed or dismissed by the DPHC with regard to

the proposal of the head and the panel of the DS.

- b) The Secretary of the DS is responsible for the day-to-day running of the school's administrative and organizational tasks. The Secretary is to assist the head of the DS, to facilitate the meetings of the DPHC, and to prepare and forward the reminders about them to DPHC members.

(3) Core members

- a) Based upon the proposal of the head of the DS, core members are appointed by the DPHC. The assignment may be revoked on the proposal of the head of the DS, or the individual may revoke it officially in writing upon individual decision. The Hungarian higher education permits individuals to be employed as a core member exclusively in one doctoral school at a time.
- b) The list of core members of the DSCES is available in the database of the National Doctoral Council /www.doktori.hu/. The list of core members is also included in Appendix 1 of these regulations.
- c) Academics, who pursue high standard scientific activities in the academic discipline and research field matching the objectives of the doctoral school, may also join as core members of the DS upon the recommendation of the head of the DS and approval of the DPHC.
- d) Core members of the DSCES are to undertake teaching and supervisory work in the DS.

(4) Supervisors

- a) A supervisor of the DS shall responsibly manage and assists the studies and research work of the doctoral students during their preparation of obtaining the doctoral degree.
- b) A supervisor of the DS shall be any lecturer or a researcher with a scientific/academic degree, whose announced research topic corresponds to that of the main research areas of DSCES, and whose research topics had been approved by the DPHC.
- c) Research topics to be announced at the DSCES should first be sent for approval of the DPHC by January 15 or June 15 of each year. The announced doctoral topics and appointments of supervisors of doctoral topics are to be decided by the DPHC.

(5) Lecturers

- a) The teaching staff of the DS shall consist of lecturers and researchers holding academic/scientific degrees that have been found suitable by the DPHC to lead lecturing, research and supervisory activities in the DS. The list of lecturers of the DS can be found in Appendix 2.
- b) Lecturers of the DS are to offer subjects as specified in the curriculum of the

doctoral training/research programme. Offering new subjects or changing the content of an old subject of the curriculum is only accepted with the permission of DPHC.

- c) The doctoral programs are revised and announced by the DPHC annually and are published in the usual way. The lecturers shall notify the head of the DS in writing of the subjects to be offered in the given semester no later than September 1 and February 1, respectively.

(6) PhD Students/Doctoral Students

- a) Doctoral students participating in the doctoral programme have the rights, duties and obligations that are stipulated in the Acts governing higher education.

3. § The Doctoral Programme and Habilitation Council (DPHC)

- (1) Council of the Doctoral School: a panel that meets regularly to assist the head of the doctoral school and is elected by the core members of the DS. Its members are appointed and dismissed by the Doctoral and Habilitation Council of the University (hereinafter UDHC).

- (2) Members of the DPHC are elected for 3 years.

(3) Chore tasks of the DPHC:

- a) based on the requirements set by the UDHC, develops, revises and improves the doctoral training and research programmes; determines those scientific activities that can be point-based evaluated, and evaluates the academic performance of the students,
- b) each academic year decides and selects courses to be offered based on the recommendation of the heads of departments and research institutes,
- c) makes recommendation to the UDHC on appointing academic staff, supervisors of doctoral topics and members of the Admission Committee of the doctoral school (personal data sheet for new employees (academics/researchers) can be found at the appendix),
- d) organises admission procedures to the doctoral training programme,
- e) fulfils admission related administration tasks
- f) reviews applications for obtaining a PhD degree through individual preparation, makes recommendation to UDHC,
- g) appoints supervisors of doctoral topics of newly admitted students,
- h) approves study plans of doctoral students,
- i) reviews the scientific achievements of doctoral students, evaluates their research work and recognises credit points, can initiate the suspension of studies when necessary,

- j) evaluates applications for exemption of exams
- k) reviews and decides on deferral request and applications for part-time scholarships abroad based on the recommendation of supervisors,
- l) defines the subjects of the comprehensive/complex exams,
- m) appoints exam board members of comprehensive/complex exams, members of dissertation committees,
- n) makes recommendations on awarding a doctoral degree
- o) supervises the distribution and allocation of finances of the DS, controls the administration of the finance of the DS,
- p) keeps records of the first employment of the alumni,
- q) makes a proposal to the UDHC on awarding doctoral degrees and titles of honorary doctor (Doctor Honoris Causa); shall express opinion on cases the UDHC's judgement is sought after.

- (4) The DPHC is chaired by the Head/Director of the DSCES.
- (5) The updated list of members of the DPHC is included in the Appendix 3.
- (6) The secretary of the DPHC is appointed by the Head/Director of the DSCES and is responsible for organising the meetings of the DPHC.
- (7) Except for the student representative, members of the DPHC must possess a doctoral degree.
- (8) The quorum and decision-making criteria of the DPHC are the same as those of the UDHC.

4. § Forum of the DSCES

- (1) The Head/Director of the DSCES organises a forum to provide information about the affairs of the DS.
- (2) The forum is convened by the Secretary of the DS on behalf of the Head of the DS.
- (3) The purpose of the forum is to inform the members of the DS and to seek their opinion on important issues.
- (4) The forum can be organised online as well.

5. § Research facilities and research disciplines of the DSCES

The following research disciplines are available in the DSCES:

1. Atmospheric chemistry

Instructors: András Gelencsér DSc, member of HAS, András Hoffer PhD, Ágnes Molnár PhD, Ágnes Rostási PhD, Beatrix Jancsek-Turóczi PhD

2. Environmental mineralogy

Instructors: Mihály Pósfai DSc, member of HAS, Ilona Nyirő-Kósa PhD, Zsombor Molnár PhD

3. Limnology

Instructors: Judit Padisák DSc, member of HAS, Csilla Stenger-Kovács DSc, Géza Balázs Selmeczy PhD, Edina Lengyel PhD

4. Ecotoxicology

Instructors: Nóra Julianna Kovács PhD, Katalin Hubai PhD

5. Behavioral ecology

Instructors: András Liker DSc, Gábor Seress PhD, Ivett Pipoly PhD, Bálint Kovács PhD

6. Analytical chemistry, separation science

Instructors: Krisztián Horváth PhD, Gábor Járvás PhD

7. Radiochemistry

Instructor: Edit Tóth-Bodrogi PhD

8. Radioecology

Instructor: Edit Tóth-Bodrogi PhD

9. Organochemical synthesis and catalysis

Instructors: Rita Skodáné Földes DSc, József Bakos DSc, Gergely Farkas PhD

10. Bioorganic chemistry, bio-coordination chemistry

Instructor: József Kaizer DSc

11. Modeling and simulation of complex molecular systems

Instructors: Dezső Boda DSc, Tamás Kristóf DSc, Mónika Valiskó PhD, Szablocs Varga PhD, Péter Gurin PhD, Zoltán Ható PhD

12. Environmental and inorganic photochemistry

Instructors: Ottó Horváth DSc, Erzsébet Szabóné Bárdos PhD, Zsolt Valicsek PhD, Lajos Fodor PhD

13. The complex system of sustainability (mitigation and adaptation)

Instructors: Ágnes Rostási PhD, András Gelencsér DSc, member of HAS, Róbert Kurdi PhD, János Abonyi DSc, Viktor Sebestyén PhD, Varga György PhD, Domokos Endre PhD

(1) The main research facilities of the DSCES can be found in the following:

Research Centre for Biochemical, Environmental and Chemical Engineering
Sustainability Solutions Research Lab
Department of Process Engineering
Department of Radiochemistry and Radioecology
Research Institute of Biomolecular and Chemical Engineering
Environmental Mineralogy Research Group
Air Chemistry Research Group
Translational Glycomics Research Group

Center for Natural Sciences

Research Group of Analytical Chemistry
Research Group of Bioorganic and Biocoordination Chemistry
Research Group of Modeling and Simulation of Complex Molecular Systems
Research Group of Environmental and Inorganic Photochemistry
Research Group of Corrosion
Research Group of Limnology
Research Group of Ecotoxicology
Research Group of Organic Chemistry - Synthesis and Catalysis
Behavioural Ecology Research Group

The scientific capacity of the DS is further strengthened by four research groups of the University of Pannonia:

HUN-REN-PE Evolutionary Ecology Research Group
(*head: András Liker*)

HUN-REN-PE Environmental Mineralogy Research Group
(*head: Mihály Pósfai*)

HUN-REN-PE Air Chemistry Research Group
(*head: András Gelencsér*)

HUN-REN-PE Limnoecology Research Group
(*head: Csilla Stenger-Kovács*)

- (2) The University's general rules apply to any research carried out on departmental or institutional levels. Formal requirements for announcing research topics can be found in Appendix 5.

DOCTORAL PROGRAMME PROCEDURES OF THE DSCES

6. § Admission and eligibility

- (1) The Admission Committee of the DSCES shall have at least 4 members: the chair of the Admission Committee shall be the head/director of the DS or any core member appointed by the head/director of the DS, further members of the Admission Committee should be two core members of the DS and a representative of the PhD students.
- (2) Applicants, who meet the criteria set in the admission requirement of the DS, shall be notified about eligibility one week before the entrance exam by the Office of the Doctoral Schools (ODS).
- (3) The Admission Committee is responsible for conducting the admission procedure

and assessing the candidate's academic knowledge and intellectual skills. The AC shall evaluate the applicant's performance and, based on the entrance/admission scores, make a recommendation to the DPHC about accepting or refusing the application.

- (4) Applicants found eligible for admission will be ranked by the Admissions Committee based on total scores obtained at the entrance exam. The order of the ranking is determined separately for recipients of the Hungarian state scholarship and the fee-paying training. The admission score is determined based on the points awarded (qualification of the diploma, language skills, professional activity) and the performance at the entrance exam (professional language skills, relevant professional experience). Applicants, who obtain scores less than 50% on the entrance exam, may not be admitted.
- (5) The final decision on admission to the doctoral programme is made by the UDHC based on the recommendation of the DPHC.
- (6) Upon successful admission, the head of the DPHC will appoint the supervisors of doctoral topics.
- (7) Doctoral training is also available to those who wish to prepare individually for the PhD degree, provided that they have met the requirements for admission and the doctoral training. An application form shall be submitted in the case of individual preparation as well. Applications can be submitted continuously and will be evaluated during the term period. In this case, the official "doctoral student status" is acquired by applying for the complex exam and its acceptance.
- (8) Criteria for obtaining a PhD degree through individual preparation:
 - a) at least 5 years of research activity
 - b) sufficient level of publications of the last 10 years which is determined by the UDHC for each specific scientific field,
 - c) master's (MSc) or equivalent degree,
 - d) knowledge of one foreign language
- (9) Application for obtaining a PhD degree through individual preparation:
 - a) Application should be submitted to the Directorate of Academic Affairs, then it is forwarded to the DS,
 - b) Formally appropriate applications are revised by the DPHC, which then recommends that UDHC initiate the acceptance or refusal of the application and the assignation of the subjects of the complex exam.
 - c) Applicants are to be notified about the decision in writing, with refusals should be justified.
 - d) The complex exam will be conducted following the UDHC's decision. The research and dissertation phase of the training will proceed along with the

complex exam.

7. § Study and examination system at the DSCES

- (1) The study and examination regulations regarding doctoral students participating in the organised training are set out in the Training Programme” of the DS. The training period shall take six semesters for those who commenced their studies before September 1, 2016, and 8 semesters for those who started after September 1, 2016. Doctoral students may participate in studies abroad for a maximum of one semester. Part-time study abroad is only accepted if the doctoral student conducts research or studies related to their research topic. DPHC decides on the acceptance of part-time training received abroad based on the proposal of the supervisor.
- (2) Doctoral candidates, who commenced their studies before September 1, 2016, shall take a comprehensive examination after successfully fulfilling the requirements prescribed in the regulations of the doctoral programme. The comprehensive exam is a form of assessment to evaluate the doctoral candidate’s knowledge acquired in the branch of science. Subjects of the comprehensive examination are included in Appendix 6.
- (3) The comprehensive exam consists of two subjects related to the topic of the dissertation: a major and a minor subject. The doctoral candidate's examination subjects are approved by the DPHC based on the supervisor’s recommendation. The doctoral student or doctoral candidate shall be notified in writing of the subjects and the date of the comprehensive examination. The comprehensive examination precedes the dissertation defence in public.
- (4) The comprehensive examination shall be conducted before the Comprehensive Exam Committee. The examination committee consists of a Chair and a maximum of four additional members; one-third of the committee, but at least one member shall be an external professional, not employed by the University. All members of the exam committee shall hold a doctoral degree. The comprehensive exam shall only be conducted if the chairman and two members (at least one of them external) are present. The candidate's supervisor, consultant, or co-author of the candidate's doctoral topics cannot serve as a member of the exam committee. The comprehensive exam is public.
- (5) The committee decides on the grades of the main and the minor subjects separately by secret ballot (on a 0-4 level marking system). The exam is successful if the sum of the number of points obtained reaches 60% of the available score for both subjects separately. The unsuccessful exam may be retaken only once after six months, but not later than within 12 months. The final grade is decided according to the following: the average of the points determined separately for the two subjects, expressed as a percentage of the points that can be obtained. At averaging

the marks, the main subject shall weigh double.

- (6) A report is taken at the comprehensive exam. Results shall be announced immediately after the exam.
- (7) No comprehensive exam is necessary to take for those who commenced their studies after September 1, 2016, or are in individual preparation. Instead, they take the complex exam that ensures the assessment of the doctoral students' theoretical preparedness. The two subjects of the complex exam - similar to those of the comprehensive exam - are assigned from the compulsory elective subjects of the DS and shall be related to the research area/topic of the doctoral student. The evaluation of the theoretical part of the complex exam is the same as that of the comprehensive exam (and in the case of the dissertation part it is also necessary to reach 60%).
- (8) To apply for the complex examination, you must provide proof of proficiency in a foreign language by passing a complex language examination at the intermediate level (B2) or equivalent, under Annex 2 of the University of Pannonia's Doctoral School's Rules and Regulations.

8. § Procedures for obtaining a doctoral degree

- (1) To obtain a doctoral degree, doctoral students need to fulfil the degree requirements as set in the Rules and Regulations of the DS, write, and defend their dissertation.
- (2) Doctoral students are required to submit the "*Request for Approval of Awarding Doctorate Degree*" form.
- (3) Requirements for obtaining a doctoral degree:
 - a) master's degree
 - b) successful comprehensive/complex exam
 - c) proof of independent scientific work in forms of articles published or accepted for publication in professionally approved scientific journals, peer-reviewed journals, and books (according to the requirements set in the disciplinary regulations of the DS).
 - d) evidence of appropriate command of one foreign language other than Hungarian/ native language (list of languages accepted and the required level is included in the Appendix.)
 - e) preparation and submission of a dissertation based on independent research (hereinafter dissertation) by using methods of scientific work, as well as its defence in a public debate before a committee

University of Pannonia, Doctoral School of Chemistry and Environmental Sciences
Rules and Regulations

f) no criminal records.

- (4) Minimum requirements to obtain a doctoral degree in the DSCES are the following:
- a) three articles, each published or accepted for publication in refereed international journals, each of which has an impact factor of more than 1, regardless of the order of the authors; OR
 - b) at least two articles published or accepted for publication in a peer-reviewed English language journals with an impact factor recognized in the discipline, with the Candidate being the first author in at least one of these;
 - c) AND at least one oral presentation and/or poster at an international scientific conference.
- (5) The criteria for obtaining a doctoral degree is the submission of a doctoral dissertation written by the doctoral student or doctoral candidate (hereinafter: author).
- (6) The most important results of the doctoral dissertation should be summarized in a theses booklet.
- (7) At the request of the author, with the consent of UDHC, the dissertation can be submitted in a foreign (i.e. other than Hungarian) language.
- (8) The formal requirements regarding the format of the dissertation and this booklet are contained in Appendix 7.
- (9) To support the author, the dissertation should be discussed in the forum of the DSCES (possibly in other scientific forums upon request) before its completion. Objections raised during the disputation are considered at the discretion of the author. A report shall be kept of the presentation of the dissertation, of the disputation, of the conclusion of the referees and the scientific forum.
- (10) The dissertation shall be submitted in two identical, bound hard copies, including the sample pages of Appendix 7.
- (11) DPHC invites two referees with doctoral degrees to evaluate the dissertation. At least one of the referees shall be an external expert (i.e. not affiliated with the University). Due to conflicts of interest or professional reasons, referees may reject the assignment within 14 days. The referee has 2 months, excluding July and August, to complete the evaluation of the dissertation.
- (12) Doctoral candidates shall be notified about the appointed members of the Dissertation Committee. Except for conflict of interest or partiality, the doctoral candidate shall not object to the appointed members. In case of objection on the part of the doctoral candidate, the DPHC shall decide upon changing the members of the Dissertation Committee.

University of Pannonia, Doctoral School of Chemistry and Environmental Sciences
Rules and Regulations

- (13) The evaluation shall detail the referees' opinion on the content, the format and the mistakes of the dissertation, with special focus on the acceptance of the theses. The evaluation can also contain questions for the author of the dissertation.
- (14) The DSCES requests three copies of the referees' evaluation. The third page of the dissertation shall be filled in with the necessary data (name of the referees, their evaluation, and the dates). One copy of the referees' written report/evaluation shall be handed back to the author, who shall respond to the questions asked by the referees. The response of the author shall be submitted in 3 copies to the Doctoral Programme Administrator. The date and place of the doctoral defense shall be announced within 2 months of the submission of responses.
- (15) If both referees recommend the rejection (i.e. object against defending) the dissertation, the procedure to obtain a doctoral degree shall be terminated. In case when only one of the referees recommends the rejection of the dissertation, then the DPHC is responsible for calling upon another referee. The assessment/evaluation of the third referee shall finalise the decision.
- (16) The evaluations are to be handed to the author who shall prepare a written response before the defence. The response is sent to the referees by the Doctoral Programme Administrator.
- (17) The doctoral dissertation shall be defended before a Dissertation Committee appointed by the DPHC in a public disputation. The Dissertation Committee shall consist of at least 5 members: The Chair, a professionally qualified university professor or professor emeritus, the referees, and two additional members. It shall be ensured that two members of the Dissertation Committee are external experts who are not employed by the University. All members of the Dissertation Committee shall hold an academic degree. The supervisor, the consultant, and the co-author of any publications of the doctoral candidate shall not be members of the Dissertation Committee.
- (18) The public disputation shall be conducted after successfully passing the comprehensive/complex exam.
- (19) The doctoral candidate, members of the DPHC, along with all the relevant faculty, departments or institutes involved in the programme, shall be notified about the time and date of the public disputation. The notification shall contain that anyone wishing to comment may do so during the disputation, alternatively, can also be reflected in writing beforehand.
- (20) The doctoral dissertation shall be made accessible to anyone.
- (21) Members of the Dissertation Committee shall be provided the opportunity to review the assessment of the dissertation and the responses given to the evaluation of the referees.

University of Pannonia, Doctoral School of Chemistry and Environmental Sciences
Rules and Regulations

- (22) In case the dissertation was prepared in a foreign language, the defence can be held either in Hungarian or in a foreign language.
- (23) At the defence, the doctoral candidate shall summarise the main points of the dissertation/present the abstract of the dissertation. The doctoral candidate shall respond to the questions and comments by the members of the Dissertation Committee and the audience. At the end of the defence, the referees and the audience declare whether they accept the candidate's responses.
- (24) After closing the disputation, the Dissertation Committee shall decide in a closed session, by secret voting (on a 0-4 level points grading) whether the defence was successful or not. The referees are also included in the voting. The doctoral dissertation is considered successful/accepted if the candidate receives at least 60% of the maximum points.
- (25) Minutes shall be taken about the disputation and of the closed session that shall be signed by the members of the Dissertation Committee. The third page of the dissertation shall be signed at the same time (a sample of the third page is included in Appendix 8.)
- (26) Following the closed session, the Chair shall publicly announce the outcome of the defence.
- (27) A failed defence cannot be repeated. The author may submit a new dissertation on a similar topic only after two years and on one occasion.
- (28) A certificate shall be issued about the evaluation of the defence.
- (29) Based on the minutes taken at the defence, DPHC prepares a proposal to the UDHC
- (30) A copy of the successfully defended doctoral dissertation along with the evaluations and the responses is to be kept in the Central Library of the University, the additional copy and further documents are to be saved at the administration unit for preservation.

This document was accepted by the Doctoral and Habilitation Council of the University on February 13, 2026, it is in effect until revoked.

CORE MEMBERS OF THE DSCES

Dezső Boda	D.Sc., dr. habil.	professor
András Gelencsér	D.Sc., dr. habil., member of HAS	professor
Krisztián Horváth	Ph.D.	associate professor
Nóra Julianna Kovács	PhD, dr. habil.	professor
Tamás Kristóf	D.Sc., dr. habil.	associate professor
András Liker	D.Sc., dr. habil.	professor
Mihály Pósfai	D.Sc., dr. habil., member of HAS	professor
Rita Skodáné Földes	D.Sc., dr. habil.	professor
Csilla Stenger-Kovács	D.Sc., dr. habil.	professor

EMERITUS MEMBERS OF THE DSCES

József Bakos	D.Sc.	professor emeritus
Attila Horváth	D.Sc.	professor emeritus
Ernő Mészáros	member of HAS	professor emeritus
János Somlai	Ph.D. habil.	associate professor

LECTURERS OF THE DSCES

Abonyi, András	PhD
Abonyi, János	DSc
Agárdi, Izabella	PhD
Bakos, József	DSc
Banász, Zsuzsanna	PhD
Bernát, Gábor	PhD
Biczók, László	DSc
Boda, Pál	PhD
Boda, Dezső	DSc
Bókony, Veronika	PhD
Borics, Gábor	PhD
Boros, Gergely	PhD
Bozó, László	academician
Buczko, Krisztina	PhD
Csordás, Anita	PhD
Daou, David	PhD
Dimova, Rozita	PhD
Domokos, Endre	PhD
Eck-Varanka, Bettina Mária	PhD
Eniszné Bódogh, Margit	PhD
Erős, Tibor	PhD
Farkas, Gergely	PhD
Fodor, Lajos	PhD
Fresneau, Nolwenn	PhD
G.-Tóth, László	DSc
Gál, Blanka Alexandra	PhD
Galambos, Ildikó	PhD
Gelencsér, András	academician
Gerencsérné Berta, Renáta	PhD
Gergely, András	PhD
Gurin, Péter	PhD
Guttman, András	DSc
Győri, János	PhD
Häkkinen, Inna	PhD
Hartyáni, Zsuzsanna	CSc
Haszpra, László	DSc
Hoffer, András	PhD
Horváth, Attila	DSc

Horváth, Krisztián	PhD
Horváth, Ottó	DSc
Hubai, Katalin	PhD
Imre, Kornélia	PhD
Ispán, Dávid	PhD
Jancsek-Turóczi, Beatrix	PhD
Jankovics, Hajnalka	PhD
Járvás, Gábor	PhD
Kaizer, József	DSc
Kakasi, Balázs	PhD
Kégl, Tamás	PhD
Keglevich, György	DSc
Kiss, László, Ferenc	PhD
Kiss, Gyula	DSc
Kolláth, Zoltán	DSc
Korim, Tamás	DSc
Kormány, Róbert	PhD
Korponai, János	PhD
Kovács, András	CSc
Kovács, Bálint	PhD
Kovács, Tibor	PhD
Kovács, Zsófia	PhD
Kovács, Nóra Julianna	PhD
Kristóf, Tamás	DSc
Kristófné Makó, Éva	PhD
Kummer, Alex	PhD
Kurdi, Róbert	PhD
Lakk-Bogáth, Dóra	PhD
Lázár, Károly	DSc
Lendvay, György	DSc
Lengyel, Edina	PhD
Liker, András	DSc
Lukács, Diána	PhD
Maász, Gábor	PhD
Madas, Balázs Gergely	PhD
Márka, Szabolcs	PhD
Márka, Zsuzsa	PhD
Marton, Aurél	PhD

University of Pannonia, Doctoral School of Chemistry and Environmental Sciences
Rules and Regulations

Meiczinger, Mónika	PhD
Mészáros, Ernő	academician
Molnár, Ágnes	PhD
Nagy, Szabolcs	DSc
Nagy, Szabolcs	DSc
Nagné Hajnal, Éva	PhD
Németh, Csaba	PhD
Németh, Péter	PhD
Németh, Zoltán	PhD
Nyirő-Kósa, Ilona	PhD
Oláhné Horváth, Borbála	PhD
Padisák, Judit	academician
Pap, József Sándor	PhD
Pap, Tamás	CSc
Paulovits, Gábor	PhD
Pipoly, Ivett Ildikó	PhD
Pirger, Zsolt	PhD
Pósfai, Mihály	academician
Raucsik, Béla	PhD
Rostási, Ágnes	PhD
Ruppert, Tamás	PhD
Sárainé Rauch, Renáta	PhD
Schmera, Dénes	DSc
Sebestyén, Viktor	PhD
Selmeczy, Géza Balázs	PhD
Seress, Gábor	PhD
Shafik, Hesham Mohamed	CSc
Skodáné Földes, Rita	DSc
Somlai, János	DSc

Somogyi, Boglárka	PhD
Somogyi, Viola	PhD
Stenger-Kovács, Csilla	PhD
Stepanovic, Ivana	PhD
Svigruha, Réka	PhD
Szabó, Róbert	DSc
Szabóné Bárdos, Erzsébet	PhD
Szalai, István	DSc
Szalontai, Gábor	DSc
Székács, András	DSc
Székely, Tamás	DSc
Takács, Erzsébet	DSc
Tapolczai, Kálmán	PhD
Tőrös, Szilárd	CSc
Tóth, Ádám	PhD
Tóth, Ádám	PhD
Tóth, Viktor	PhD
Tóth-Bodrogi, Edit	PhD
Trájer, Attila János	PhD
Tuba, Róbert	PhD
Valicsek, Zsolt	PhD
Valiskó, Mónika	PhD
Várbíró, Gábor	PhD
Varga, Szabolcs	PhD
Végyvári, Zsolt	DSc
Vonderviszt, Ferenc	DSc
Wojnárovits, László	DSc
Z. Karvalics, László	DSc

**MEMBERS OF THE DOCTORAL PROGRAMME AND HABILITATION COUNCIL
OF THE DSCES**

Chair:

Dr. András Liker DSc., professor

Members:

Dr. Dezső Boda DSc., professor

Dr. András Gelencsér DSc., professor, member of HAS

Dr. habil. Nóra Julianna Kovács PhD, professor

Dr. Mihály Pósfai DSc., professor, member of HAS

Rita Skodáné Dr. Földes DSc., professor

Dr. Csilla Stenger-Kovács DSc., professor

External members:

Dr. László Biczók DSc., scientific advisor, HUN-REN Research Centre for Natural Sciences

Dr. László Bozó DSc., professor, member of HAS, HungaroMet, Hungarian University of Agriculture and Life Sciences

Dr. László G.-Tóth László DSc., professor emeritus, Balaton Limnological Research Institute

Dr. György Keglevich DSc., professor, Budapest University of Technology and Economics

Ph.D. Student representative

Secretary:

Dr. Beatrix Jancsek-Turóczy PhD

PERSONAL DATA SHEET

(For lecturers/researchers of the DSCES)

Name:.....

Date of birth:.....

Academic degree and date of obtaining the academic degree:

Discipline of the obtained degree:

Type of employment with the University:

- full time
- part-time
- contract based
- retired
- professor emeritus
- other: _____

Position at the University:

- professor
- associate professor
- scientific/research work
- other: _____

Habilitant's denomination from the university:

Date of habilitation:

Active supervisor: yes/no

Currently supervising the following student(s):

Name	Semester

Participating in the doctoral programme in the form of (please choose one):

head

core member

supervisor

lecturer

Information regarding scientific work (List the 10 most important publications of the last 5 years including bibliographic data):

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Specific data on scientific work (patents, inventions of the last 5 years):

1	
2	
3	
4	
5	

Please include your Curriculum Vitae (max. 2 pages).

RESEARCH TOPIC OF THE DSCES

Title of the research topic: [title]		Supervisor(s): [Name] [position] [scientific degree]
Discipline:	Research area:	Location of studies:
Description of the research topic:		
Background to the research topic:		
Comment:		
Signature(s) of supervisor(s):		Head of the location of studies:
By the Board of the Doctoral School the research topic was [accepted / not accepted].		Signature of the head of the Doctoral School:

**LIST OF SUBJECTS OF THE COMPREHENSIVE/COMPLEX EXAM OF THE
DSCES**

Evolution of the Earth's Environment
Global climate change: causes and consequences
Nuclear Energetics
Introduction to light pollution studies
Introduction to the theory of complex systems
Bioanalytical methods
Biochemistry II.
Chemistry of Biocoordination
Biostatistics
Theoretical organic chemistry
Separation methods in analytical chemistry
Evolutionary biology
Metalloorganic Chemistry
Sustainable energy systems
Communication of sustainable development
Waste Management – Sustainability
Sustainable water management
Complex system of sustainability
Implementation of sustainability projects
Physical Chemistry I.
Physical Chemistry II.
Statistical thermodynamics of fluids
Computer simulation of liquids
Computer simulation of liquids II.
Hydrobiology
Hydrogeology
Interpretive spectroscopy I.
Interpretive spectroscopy II.
Experimental photochemistry: steady-state methods
Experimental photochemistry: time-resolved methods
Coordination Chemistry
Corrosion testing and corrosion protection
Environmental mineralogy
Environmental DNA
Environmental Photochemistry

University of Pannonia, Doctoral School of Chemistry and Environmental Sciences
Rules and Regulations

Environmental Chemistry
Quantum Chemistry I.
Quantum Chemistry II.
Atmosphere - Biosphere Interaction
Atmospheric Science
Atmospheric Chemistry
Limnology
Nuclear and Particle Physics
Nuclear Metrology
Ecology
Polymer chemistry
Uses of radioisotopes
Radioecology
Vibrational and electron spectroscopy
Stereochemistry of organic compounds
Inorganic Photochemistry
Soil contamination and remediation
Natural and artificial radiations
Toxicology
Transmission electron microscopy
Transition metals and their compounds
Biogeochemical cycles
Theoretical inorganic chemistry
Behavioral ecology

FORMAL REQUIREMENTS FOR DOCTORAL THESES AND ABSTRACT BOOKLETS

The **doctoral dissertation** shall be submitted in 2 identical, bound copies and electronic form as well. One of the bound copies is the property of the University Central Library, one copy is the property of the educational unit or the supervisor. If the candidate requires an own bound copy, she/he must provide it with an additional bound copy.

The front cover shall contain the following: DOCTORAL (PhD) DISSERTATION, name of the author, place and year of submission. On the inside of the back cover, it is recommended to place a suitable paper case to place the reviews of the referees and the answers in it.

The first page of the dissertation is blank, followed by the second page, which is the title page. This page shall display (apart from the previously mentioned data) the title of the dissertation, the supervisor's name, and the name of the Doctoral School of the University of Pannonia.

The template of the 3rd page of the dissertation is included in Annex 8 of the rules and regulations. The content of the 3rd page is not allowed to change. The known information shall be filled in by the author; the rest shall be left blank.

Components of the dissertation:

- table of contents,
- abstract with the translation of the title (in Hungarian, English and another world language), a summary of the literature of the research field, with critical remarks,
- research part (detailed description of the materials used and methods applied), the research results and their evaluation, (with special attention to the knowledge gained through the research to express the development and improvement in the given scientific field),
- detailed summary (longer and more detailed than the extract),
- bibliography/reference list including all sources cited in the work (shall be displayed in a way that the cited documents can be identified with complete certainty),
- numbered thesis points that summarize the main results of the dissertation in Hungarian and in English.

The maximum length of the dissertation is 250,000 characters, including tables and

diagrams as well. The details of an extensive series of measurements are not necessary to be included unless the author insists, they can be added to the appendix. It falls into the jurisdiction of the UDHC to grant an exemption from length constraint.

The **theses booklet** shall provide a summary of the preliminary research work, the aims, the applied research / experimental methods and the findings of independent scientific work (thesis conclusions) in a numbered format. The booklet shall contain a list of the author's publications with bibliographic data regarding the topic of the dissertation.

The theses booklet shall be submitted in Hungarian and English, bound together or separately - in several copies depending on the number of people to be invited - and in an electronic version as well (in a separate file). Usually, 30 copies of the printed form are sufficient.

Aspects of the abstract at the end of the dissertation in Hungarian language:

- in terms of structure, it shall stand as an "independent work" with a clear line of thought and following a simple style,
- the paragraphs shall be logically connected, but topically separated from each other,
- the use of terminology shall be uniform/standardized and clear,
- the use of first-person singular shall be avoided, instead "the author ...", and "the dissertation ..." are advised to be used,
- its length shall not exceed 2,500 characters,
- it shall contain a clearly and briefly prepared summary of the aims and objects of the research, experimentation and work that contributed to the writing of the dissertation. It should also entail the description of the applied method(s), and procedure(s) - if the method/procedure is new or modified, then only the nature and the quality of the novelty shall be outlined - including the achieved specific results and the realised or possible applications.

Based on the content of the dissertation, the author shall contemplate the weight, the inclusion or exclusion of the above-mentioned aspects in the abstract.

The abstract shall exclude:

- an introduction, a detailed explanation of the choice of topic, known statements...etc.
- a thematic presentation of each chapter of the dissertation,
- figures or chemical formulas.

University of Pannonia, Doctoral School of Chemistry and Environmental Sciences
Rules and Regulations

Aspects of the English or other foreign language abstracts:

- its content shall not exceed 8-10 lines,
- the aspects of the content are the same as above, but it is advised to focus on the method applied, the obtained result and their application.

In compiling these abstracts, special attention shall be paid to the correct use of language and grammar, in particular to the terminology in English and German.

[TITLE OF THE PHD THESIS]

The thesis was prepared for the award of a doctoral degree (PhD) within the framework of the [NAME OF DOCTORAL SCHOOL] at University of Pannonia

in the discipline of [NAME OF THE DISCIPLINE]

written by: [NAME OF THE DOCTORAL CANDIDATE]

Supervisor[s]: [NAME(S) OF THE SUPERVISOR(S)]

I recommend the dissertation for acceptance: yes / no.

.....
supervisor

[I recommend the dissertation for acceptance: yes / no.

.....
supervisor]

I recommend the dissertation for peer review.

.....
chair of the DDHC

The PhD-candidate has achieved % at the public debate.

The composition of the Final Examination Committee:

chair:.....

reviewers:.....

members:.....

Veszprém, [DATE]

.....
chair of the committee

Qualification of degree:

Veszprém, [DATE]

.....
chair of the UDHC

University of Pannonia, Doctoral School of Chemistry and Environmental Sciences
Rules and Regulations

[TITLE OF THE PHD THESIS]

The thesis was prepared for the award of a doctoral degree (PhD) within the framework of the [NAME OF DOCTORAL SCHOOL] at University of Pannonia

in the discipline of [NAME OF THE DISCIPLINE]

written by: [NAME OF THE DOCTORAL CANDIDATE]

supervisor[s]: [NAME(S) OF THE SUPERVISOR(S)]

I recommend the dissertation for acceptance: yes / no.

.....
supervisor

[I recommend the dissertation for acceptance: yes / no

.....
supervisor]

I recommend the dissertation for peer review.

.....
chair of the DDHC

The PhD-candidate has achieved % in the comprehensive exam.

The composition of the Comprehensive Examination Committee:

chair:.....

examiners:.....

members:.....

Veszprém, [DATE]

.....
chair of the Committee

University of Pannonia, Doctoral School of Chemistry and Environmental Sciences
Rules and Regulations

The PhD-candidate has achieved % at the public debate.

The composition of the Final Examination Committee:

chair:.....

reviewers:.....

members:.....

Veszprém, [DATE]

.....
chair of the Committee

Qualification of degree:.....

Veszprém, [DATE]

.....
chair of the UDHC

University of Pannonia, Doctoral School of Chemistry and Environmental Sciences
Rules and Regulations

This document was accepted by the Doctoral and Habilitation Council of the University on February 13, 2026, it is in effect until revoked.