

Organisational and Operational Rules of the Doctoral School of Biology and Sport Biology

Based on Act CCIV of 2011 on National Higher Education (hereinafter: NHEA), Government Decree 87/2015 (IV.9.) on the implementation of certain provisions of the NHEA, Government Decree 387/2012 (XII.19.) on doctoral schools, doctoral procedures and habilitation, as well as related applicable legislation, the Doctoral Regulations of the University of Pécs, the resolutions of the Hungarian Accreditation Committee (hereinafter: HAC) and the Hungarian Doctoral Council (hereinafter: HDC), the Doctoral Council of Sciences (hereinafter: DCS) establishes the following rules (hereinafter: Rules) for defining the organisation and operation of the Doctoral School of Biology and Sport Biology (hereinafter: Doctoral School):

Scope of the Rules

§ 1 (1) The scope of these Rules extends to the Doctoral School and to:

- a) the lecturers and researchers participating in the doctoral training and in the doctoral degree awarding procedure,
- b) the employees performing the administration of doctoral training and study-related tasks (hereinafter: doctoral administration),
- c) the students participating in the doctoral training (hereinafter: doctoral student or student), individual trainees/applicants, doctoral candidates, and doctoral aspirants,
- d) the applicants submitting admission applications for doctoral training.

Legal Status of the Doctoral School

§ 2 (1) The name of the Doctoral School in Hungarian: Biológiai és Sportbiológiai Doktori Iskola (BDI)

(2) The name of the Doctoral School in English: Doctoral School of Biology and Sport Biology

(3) The seat of the Doctoral School: University of Pécs, H-7622 Pécs, Vasvári Pál u. 4.

(4) The languages of doctoral training and the conferment of the degree at the Doctoral School: Hungarian and English.

(5) Identification number of the Doctoral School: 104

(6) The Doctoral School provides accredited doctoral training within the field of Natural Sciences, conducting and teaching research in the discipline of Biological Sciences.

(7) The operation of the Doctoral School requires at least seven core members. More than half of the core members must hold the title of university professor. A person may be a core member of only one doctoral school at a time.

Tasks and Competences of the Doctoral School

§ 3 (1) The Doctoral School shall have the right to:

- a) jointly propose doctoral training and the award of the doctoral degree,

- b) conduct doctoral training, including participation in examinations and the delivery of teaching activities,
- c) develop and adopt its own internal regulations governing its operation,
- d) delegate members to the University Doctoral Council (UDC) and to the DCS,
- e) conduct admission procedures for doctoral training,
- f) regulate the verification of language proficiency as authorised by higher-level regulations,
- g) define doctoral programmes or research topic groups (hereinafter collectively: doctoral programmes) within its research areas.

Head of the Doctoral School

§ 4 (1) The Head of the Doctoral School is a core member who is a full professor employed by the University of Pécs (hereinafter: University) under full-time employment, holds a scientific degree and the title Doctor of the Hungarian Academy of Sciences (DSc), and has outstanding professional recognition.

(2) The Head of the Doctoral School is elected by the UDC from among the full professors holding the DSc title who are core members of the Doctoral School, based on the opinion of the majority of the core members, and is appointed by the Rector for a maximum of five years. The appointment may be extended multiple times.

(3) Duties of the Head of the Doctoral School:

- a) coordinates the professional activities conducted by the Doctoral School,
- b) directs the activities of the Council of the Doctoral School and is responsible for implementing its decisions,
- c) represents the Doctoral School,
- d) makes proposals to the DCS on the development of the Doctoral School,
- e) decides on applications submitted by students for reduction of tuition fees or postponement of payment,
- f) sets the annual quality objectives of the Doctoral School,
- g) decides on all other issues referred to his/her competence by university regulations.

(4) The appointment of the Head of the Doctoral School terminates:

- a) upon expiry of the appointment,
- b) upon reaching the age of seventy,
- c) by withdrawal,
- d) by resignation,
- e) upon termination of employment with the University,

f) upon the death of the Head.

(5) The Rector may withdraw the appointment of the Head of the Doctoral School, after seeking the opinion of the UDC, if the Head does not properly perform the duties specified in paragraph (3), or if he/she is unable to lead the Doctoral School for at least six months. A proposal for withdrawal may be made by the Council of the Doctoral School, the DCS, or the UDC.

Council of the Doctoral School

§ 5 (1) The Doctoral School establishes a body to support the work of its Head, called the Council of the Doctoral School.

(2) The voting members of the Council of the Doctoral School are:

a) the Head of the Doctoral School,

b) the core members.

(3) The following persons may also participate in the meetings of the Council of the Doctoral School with the right to consultative voice:

a) one representative of the Doctoral Student Union of the University of Pécs,

b) and, if not a core member, the Secretary of the Doctoral School.

(4) The Chair of the Council of the Doctoral School is the Head of the Doctoral School. The Council's work is assisted by a secretary appointed by the Chair.

(5) The tasks and competences of the Council of the Doctoral School are as follows:

a) to prepare a draft of the regulations governing its organisation and operation, to be approved by the DCS,

b) to prepare, with the involvement of the relevant parties, the Doctoral School's quality assurance plan and quality policy, to be approved by the DCS,

c) upon the Head's proposal, to decide on the lecturers and supervisors of the Doctoral School, whose appointment is subject to approval by the DCS,

d) to make proposals for the Training Plan of the Doctoral School and for the doctoral programmes to be launched within it, to be approved by the DCS,

e) to approve the announcement of topics and the doctoral research topics,

f) to make proposals regarding the requirements of the comprehensive examination, to be decided by the DCS,

g) to make proposals to the UDC for the election of members of the DCS,

h) upon the Chair's submission, to make proposals to the DCS for the appointment of members of the admission committee, the examination committees, the review committees, the official reviewers, and for the establishment of the examination and comprehensive examination boards,

i) to determine the tuition fees and other charges related to training,

- j) to decide on the public announcement of the dissertation defence,
 - k) to make proposals for the revocation of the appointment of the Head of the Doctoral School,
 - l) to acknowledge the minimum number of credits required for individual candidates to be admitted to the comprehensive examination,
 - m) to make proposals to the DCS regarding the requirements for admission, submission procedures, and regulations of the admission process,
 - n) to approve the annual quality objectives of the Doctoral School, and to evaluate their implementation after the deadlines have expired,
 - o) to determine the scope of data to be collected, analysed, and published regarding the operation of the Doctoral School, and to supervise the data collection and analysis process,
 - p) to establish and adopt the requirements related to publication performance,
 - q) to perform all other duties assigned to its competence by university regulations.
- (6) The proposal referred to in paragraph (5) (g) shall be prepared by the Head of the Doctoral School based on the list of nominees adopted by the Council of the Doctoral School by simple majority vote.
- (7) The Council of the Doctoral School shall meet as necessary, but at least twice per semester. A meeting must be convened immediately if initiated by one-third of the members or by the Chair of the DCS. Meetings are convened in writing by the Head of the Doctoral School, indicating the agenda, at least five working days prior to the meeting. The Council has a quorum if at least half of its members are present. Decisions are made by open vote with a simple majority of the members present, except where otherwise provided by these Rules. Voting on personal matters shall be conducted by secret ballot. Minutes of the meetings shall be prepared by the Secretary and authenticated by the signatures of both the Chair and the Secretary.
- (8) In justified cases, the Council of the Doctoral School may also make decisions by electronic voting. Valid votes may only be cast from the email address previously provided by the member. Electronic voting shall be considered valid if more than half of the members of the Council have cast their votes. The voting shall be considered successful if more than half of the valid votes cast are identical in content.

Core Members and Lecturers of the Doctoral School

§ 6 (1) The core members of the Doctoral School may be university lecturers, researchers, and external experts who hold a scientific degree, conduct continuous, high-level scientific activity recognized both nationally and internationally within the discipline of the Doctoral School, as demonstrated by publications, and have supervised at least one student who has obtained a doctoral degree. The admission of new core members shall be decided by majority vote of the Council of the Doctoral School upon the proposal of the Head of the Doctoral School. Their appointment shall be approved by the DCS if their consistent, high-quality scientific performance makes them suitable for the role.

(2) The lecturers of the Doctoral School may be university lecturers, researchers, and external experts holding a scientific degree, who have proven expertise in a given field and are capable of fulfilling teaching, research, and supervisory responsibilities. The lecturers of the Doctoral School shall be approved by majority vote of the Council of the Doctoral School upon the proposal of the Head of the Doctoral School, and their appointment shall be confirmed by the DCS if their continuous, high-level scientific performance qualifies them for the position.

(3) The core members and lecturers of the Doctoral School may announce research topics within the framework of the doctoral training.

Supervisor

§ 7 (1) The supervisor of a doctoral topic is a lecturer or researcher holding a PhD degree whose topic announcement has been approved by the Council of the Doctoral School, and who, based on this, is responsible for directing and supporting the studies and research work of the doctoral student, as well as preparing the doctoral students, candidates, and aspirants for obtaining the doctoral degree.

(2) The supervisor shall:

- a) announce the doctoral topic,
- b) confirm in the Neptun study system, or through an authorised representative, the completion of the doctoral student's research tasks and, by approving the completion of the laboratory work each semester, evaluate the student's performance,
- c) assist the doctoral student or candidate in preparing the doctoral dissertation and scientific publications,
- d) make proposals for the doctoral student's study and research plan and assist in their implementation.

(3) A lecturer or researcher may assume supervisory duties two years after obtaining the doctoral degree, provided that they have since demonstrated further independent, verifiably successful research and publication activity. Supervisors must verify their continuous scientific activity with data recorded in the HDC and the MTMT databases.

(4) Additional criteria applicable to the selection of supervisors of the Doctoral School:

- a) Supervisors are expected to meet the habilitation requirements relevant to their discipline and to have a publication record in the last five years that at least meets the current output requirements for obtaining a PhD degree.
- b) The appointment of supervisors shall be decided by the Council of the Doctoral School based on the supervisor candidate's application and approved by the DCS. The list of supervisors shall be reviewed by the Council of the Doctoral School once per accreditation period.

(5) Further provisions relating to supervisors:

- a) the supervisor shall propose the individual study and research plan of the doctoral student and is responsible for its quality and implementation,

- b) assist the doctoral student in their work, in writing scientific publications and the doctoral dissertation, and support their applications for foreign scholarships,
- c) ensure compliance with the formal requirements of the dissertation and theses,
- d) provide an opinion on applications for the recognition of foreign doctoral degrees,
- e) take responsibility for the academic content of the completed doctoral dissertation,
- f) a change of supervisor during an ongoing PhD programme may only take place upon the prior decision of the Council of the Doctoral School and with the approval of the DCS,
- g) a supervisor may simultaneously supervise a maximum of four doctoral students or candidates with active student status. Students who have completed the programme requirements but have not yet obtained the degree count toward this maximum for two years, while those who have not yet completed the programme requirements count for five years. Co-supervision counts as 0.5 per student. The number of doctoral students supervised is calculated based on data published on the website www.doktori.hu.

(6) A doctoral student or candidate may have up to two supervisors simultaneously. The first supervision after obtaining the PhD degree may only be undertaken as a co-supervisor. The appointment of a co-supervisor may be made upon the Head of the Doctoral School's approval and with the consent of the DCS, based on a written request submitted to the Head. The name(s) of the supervisor(s) must be clearly indicated on the title page of the doctoral dissertation.

Rules on Tuition Fee Reductions

§ 8 (1) A reduction of the tuition fee may be granted to a student by decision of the Head of the Doctoral School. The formal and substantive requirements for requesting a reduction based on academic performance or social circumstances are defined by the Doctoral School as follows, taking into account the recommendations of the Faculty or Faculties concerned:

- a) The Council of the Doctoral School may, based on a doctoral student's request, make an equitable decision to reduce the tuition fee on social grounds.
- b) The Council of the Doctoral School may decide on a tuition fee reduction for applicants coming from institutions that maintain active research cooperation with the Doctoral School.

(2) When evaluating requests for tuition fee reductions, the tuition fee determined in accordance with the Chancellor's Instruction No. 4/2022 on tuition fee calculation must be taken into account. The decision must ensure that any reduction does not result in the operation of the Doctoral School — taking into consideration all its programs — becoming financially unsustainable. From January 1, 2015, students may request a reduction of their payable tuition fee no later than the last working day of the registration period. From the same date, students whose payment obligation (entry) is issued in September (or later) for the autumn semester, or in February (or later) for the spring semester, may submit their request for a reduction within eight days of becoming aware of the issued payment obligation, but no later than the payment deadline. Decisions related to student requests must be sent by the doctoral school to both the student concerned and the Central Registrar's Office (hereinafter: CRO) no later than March 15 for the spring semester and October 15 for the autumn semester. This ensures that the University can fulfil its statutory data reporting obligations with accurate information.

(3) For students enrolled in doctoral programs, the Head of the respective Doctoral School may, upon request, approve a different payment deadline for any tuition instalment if justified by verified objective circumstances (e.g., foreign scholarship, delayed arrival of international student loan). In such cases, the modified deadline may be no later than the day preceding the first day of the examination period of the given semester, in accordance with §52 of the University of Pécs Regulation on Student Payments and Benefits.

Rules on Scholarships Available to Students through Applications

§ 9 Doctoral students may apply for other scholarships in accordance with §25 of the University of Pécs Regulation on Student Payments and Benefits. The Doctoral School shall inform students about current scholarship opportunities through its website.

Rules on Admission to Organised Doctoral Training

§ 10 (1) Hungarian and foreign citizens holding a master's degree and professional qualification obtained in Hungary or abroad, or those who obtain such a degree before enrolment in the given academic year, may apply for organized doctoral training. Applications may be submitted for research topics announced by the supervisors of the Doctoral School. These topic announcements, together with the additional admission requirements for doctoral programs, are made publicly available on the Doctoral School's website and on www.doktori.hu.

(2) Applications for doctoral training must be submitted exclusively online through the doctoral admission platform, by completing the online application form and uploading all required attachments (<https://international.pte.hu/study-programs/phd-biology-and-sport-biology>). The application becomes final when the applicant prints and signs the confirmation form received after submitting the online application and delivers it to the Doctoral School.

(3) Admission to the doctoral program requires a university-level Master's degree (MSc, MA) in natural sciences (including teacher training in natural sciences), medicine, psychology, pharmacy, sport and health sciences, or agricultural sciences, with a minimum final grade average of 3.0.

(4) Documents to be attached to the application:

- a) completed and signed application form
- b) curriculum vitae
- c) copy of a document certifying foreign language proficiency
- d) research proposal or motivation letter
- e) statement of support from the prospective supervisor
- f) proof of payment of the application fee

(5) In the application, the applicant must indicate whether they wish to pursue their studies in a state-funded or self-financed form. Applicants may indicate both forms, but admission can only be granted to one of the selected forms of financing.

(6) In the application, the applicant must indicate whether they wish to pursue their studies in full-time or part-time form. Applicants may indicate both forms, but admission can only be granted to one of the chosen study modes.

(7) The admission procedure is conducted by an Admission Committee appointed by the DCS, consisting of at least three members. The Committee includes a Chair and at least two university professors who are core members of the Doctoral School. The Chair is the Head of the Doctoral

School or a core professor delegated by them. The Head of the Doctoral School proposes the members of the Committee.

(8) The score attainable during the in-person or, in justified cases, online admission procedure (as decided by the Admission Committee) is calculated as follows:

Base score (maximum 115 points):

Oral examination: 0–60 points

Diploma grade between 3.5 and 5.0 (3.6 average = 1 point; 5.0 average = 15 points): max. 15 points

Scientific Students' Association (TDK) activity: max. 12 points

Participation in the National TDK Conference (OTDK):	4 points
2nd–3rd place at OTDK:	8 points
1st place at OTDK:	12 points

Language proficiency: maximum 8 points

Advanced-level (C1) language exam in any language:	8 points
Additional intermediate-level (B2) language exams:	4 points each

Publication activity: maximum 20 points

Presentation at a domestic conference:	1 point
Presentation at a domestic international conference:	2 points
Presentation at a foreign conference:	3 points
Article in a Hungarian-language journal:	4–5 points
Article in an English-language domestic journal:	6–9 points
Article in an international journal:	10–15 points

Points for conference presentations are awarded only if the applicant is the first or presenting author. The evaluation of published journal papers depends on the journal's impact factor (IF) and the applicant's position in the author list.

(9) The Admission Committee prepares minutes of the admission procedure, recorded and certified by the Secretary of the Doctoral School. The minutes must include the scores awarded in each section and their total.

(10) Based on the proposal of the Admission Committee, the final admission decision is made by the DCS. Admission may be granted only to applicants who achieve a minimum total score of 70 points.

(11) The Doctoral School announces admission once per academic year, at the end of the spring semester, and an additional supplementary admission round before the start of the autumn semester.

(12) Applicants may participate in the supplementary admission process if they:

- a) did not submit an application during the regular admission period of the given year, or
- b) originally applied for a state-funded program but now apply for a self-financed program.

(13) The DCS publishes the admission results on its website in an anonymized format. The decision letter is sent to the applicant through the doctoral administration system. In case of rejection, the

decision must be justified, and the applicant informed of their right to appeal. Appeals may be submitted within 15 days from notification to the authority that issued the first-instance decision, addressed to the Second-Instance Study Committee. In the case of admission, the notification must specify the date of enrollment, required documents, start of the academic year, and information regarding tuition fees and related costs. The admission decision must include the name of the Doctoral School and the academic discipline of the doctoral degree.

(14) The application fee for doctoral program admission is 9,000 HUF per application. Proof of payment must be attached to the application to verify that the fee has been paid to the Doctoral School.

(15) Doctoral students or candidates who established their doctoral student or doctoral candidate status before the 2016/2017 academic year are eligible to apply for admission to a doctoral program, provided that they do not exceed the eight-semester funding period defined in Section 47 (2) of the National Higher Education Act, including any previously used funded semesters. Within the same discipline, applicants may only apply for a state-funded doctoral program if they did not obtain a final certificate (absolutorium) in their previous training.

(16) A student may also begin doctoral training parallel with their final year of master's studies, provided they meet the admission requirements after obtaining the master's degree. Up to 20% of admitted students may start their studies in this parallel form. Eligible applicants include those who achieved 1st–3rd place in national rounds of the Scientific Students' Association competitions or who are authors of published scientific papers. At the time of admission, credits earned during the master's program are recognized based on the decision of the DCS.

(17) The detailed rules above concerning the submission of applications and the admission procedure have been defined in this Regulation by the Doctoral School and the DCS pursuant to Section 13 (2) j) of the Doctoral Regulations of the University of Pécs.

Rules for Admission of Individual Applicants

§ 11 (1) Applicants who have prepared individually for obtaining a doctoral degree may also join the doctoral training, provided that they have fulfilled the admission and training requirements and that their application has been approved by the DCS in accordance with § 26 (1) of the Doctoral Regulations of the University of Pécs. In such cases, the student status is established upon successful completion of the comprehensive examination. Student status through completion of the comprehensive examination may also be established by those who, while being enrolled in the general medicine, veterinary medicine, dentistry, or pharmacy programs, have individually prepared for the doctoral degree and whose credits obtained during the master's program or in the final four semesters of the undivided program have been recognized based on the DCS's decision during the comprehensive examination.

(2) The conditions for the acceptance of the application for the comprehensive examination and for admission in the case of individual applicants are as follows:

- a) in experimental fields: a total impact factor (IF) of 10, including at least one first-author paper (in a Q1–Q2-ranked journal) related to the dissertation topic, or
- b) in non-experimental fields: a total impact factor (IF) of 5, including at least one first-author paper (in a Q1–Q2-ranked journal) related to the dissertation topic.

(3) The individual applicant must submit their doctoral dissertation, in accordance with the provisions of this Regulation, within five academic years following the establishment of their student status.

Rules on Admission in Parallel with Master's Studies

§ 12 (1) Exceptionally talented applicants who hold a bachelor's degree and qualification, and who have achieved 1st, 2nd, or 3rd place in a relevant section of the National Scientific Students' Associations Conference (OTDK), or can verify appropriate publication activity (authorship in scientific journal publications), may be admitted to doctoral training parallel with their master's studies.

(2) Additional criteria of excellence and other admission requirements (including language proficiency) are determined by the Doctoral School or the DCS. Applicants must pass a successful entrance examination and demonstrate outstanding academic, scientific, and language competence. The detailed rules regarding the submission of applications and the admission procedure are established by the Doctoral School and the DCS in accordance with Section 13 (2) j) of the Doctoral Regulations of the University of Pécs.

Rules on Recognition of Certain Credits

§ 13 (1) For residents participating in the postgraduate medical specialist training system or for central interns enrolled in specialized programs designed to ensure the recruitment of university teaching staff, the DCS may authorize the recognition of up to two semesters or sixty credits from the period of core training and professional practice completed in those programs.

Training Plan and Rules Concerning Doctoral Programmes

§ 14 (1) The Council of the Doctoral School prepares the Training Plan of the Doctoral School, which is approved by the DCS. The Council of the Doctoral School reviews the Training Plan regularly during each accreditation period in accordance with Level 8 of the Hungarian Qualifications Framework, submits the revised version to the DCS for approval, and, following approval, promptly arranges for the publication of the new version on the Doctoral School's website.

(2) During the preparation and revision process of the Training Plan, the Doctoral School solicits the opinions of external experts involved in the training, cooperating partners, and students, and takes these opinions into account during the review. These opinions are discussed at the annual meeting of the Doctoral School and may also be submitted in writing to the Council of the Doctoral School.

(3) The Doctoral School operates within the framework of the Training Plan, which defines the credits obtainable for specific activities. The mandatory courses announced by the Doctoral School are listed in Annex 1 of this Regulation, while the general catalogue of courses offered with variable availability across semesters can be found in Annex 8. The Training Plan specifies the compulsory courses and the credits obtainable through course participation and other academic activities.

Requirements for Obtaining the Doctoral Degree

§ 15 (1) For doctoral students who began their studies before the 2016/2017 academic year, the requirements set by the Doctoral School for obtaining the doctoral degree are as follows:

- a) successful completion of the doctoral comprehensive examination,
- b) possession of one state-recognized or equivalent intermediate (“C” type) language examination and a second basic (“C” type) language examination in another language, which in the case of hearing-impaired candidates may also be proven by demonstrating knowledge of a sign language other than Hungarian. Certified dysgraphic and dyslexic candidates may prove their English proficiency by presenting their defence presentation in English,
- c) independent scientific work, demonstrated through publications and studies (see paragraph (5)),
- d) registration of the scientific works proving the candidate’s achievements in the national scientific bibliographic database,
- e) acquisition of the absolutorium,
- f) submission and successful defence of the doctoral dissertation.

(2) For doctoral students who began their studies in the 2016/2017 academic year or later and established student status by December 20, 2022, the requirements for obtaining the doctoral degree are:

- a) obtaining the credits prescribed in the doctoral training,
- b) possession of one state-recognized or equivalent intermediate (“C” type) language examination, which in the case of hearing-impaired candidates may be substituted by proof of knowledge of a sign language other than Hungarian. If the intermediate “C” language examination is in English, the doctoral student may request exemption from proving proficiency in a second language. If the intermediate “C” examination is not in English, a basic (“C” type) English language examination is required as the second language. Certified dysgraphic and dyslexic candidates may prove their English proficiency by presenting their defence presentation in English, and hearing-impaired candidates may do so by proving knowledge of a sign language other than Hungarian,
- c) independent scientific work, demonstrated through publications and studies (see paragraph (5)),
- d) registration of the scientific works proving the candidate’s achievements in the national scientific bibliographic database,
- e) acquisition of the absolutorium,
- f) submission and successful defence of the doctoral dissertation.

(3) For doctoral students who began their doctoral training after December 20, 2022, the requirements for obtaining the doctoral degree are:

- a) obtaining the credits prescribed in the doctoral training,
- b) possession of one state-recognized or equivalent intermediate (“C” type) English language examination, which in the case of hearing-impaired candidates may be substituted by proof of knowledge of a sign language other than Hungarian. If the intermediate “C” language examination is in English, the doctoral student may request exemption from proving proficiency in a second language. If the intermediate “C” examination is not in English, a basic (“C” type) English language examination is required as the second language. Certified dysgraphic and dyslexic candidates may prove their English proficiency by presenting their defence presentation in English,
- c) independent scientific work, demonstrated through publications and studies (see paragraph (5)),

- d) registration of the scientific works proving the candidate's achievements in the national scientific bibliographic database,
- e) acquisition of the absolutorium,
- f) submission and successful defence of the doctoral dissertation.

(4) Proof of language proficiency may be provided by:

- a) a certificate or diploma of a state-recognized (or equivalent) intermediate "C" level language examination in a foreign language, or
- b) recognition of a university diploma obtained abroad.

For Hungarian doctoral students studying outside Hungary, the official non-Hungarian language of their home country may be accepted as the second language if the doctoral student obtained their diploma in that language or can credibly certify their proficiency in it.

(5) Publication requirements for the award of the doctoral degree set by the Doctoral School:

The candidate must have at least two publications in the field of the dissertation topic, published or accepted for publication in international or internationally distributed journals with an impact factor (IF). At least one of these publications must be a first-author paper by the PhD student. The scientific value of the publications is characterized by the Impact Index, calculated as follows:

$$\text{Impact index} = \frac{\text{cumulative IF}}{\text{Discipline specific median IF}}$$

where the cumulative IF is the total impact factor of all publications related to the dissertation topic. The current value of the discipline-specific median IF is determined based on the Journal Citation Index (JCI). The Impact Index for publications related to the dissertation topic must be at least 1.0.

For two publications belonging to different subject categories, the average of the two median IFs must be used. If a journal is classified under multiple ISI disciplines, the supervisor must declare which discipline the publication is associated with, and the median of that field must be applied. In the case of shared first authorship, the requirement for first authorship is fulfilled by at least two shared first-author publications with an IF. Exemption from the first authorship requirement may be granted only in the case of an exceptionally high impact factor publication, as decided by the Council of the Doctoral School. In exceptional cases, a single first-author paper may fulfill the publication criterion if it appears in a journal ranked within the top 10% (D1) of its field according to the Scimago database. If the dissertation is based on a publication without first authorship, the specific contribution of the doctoral candidate must be clearly indicated. This must be confirmed in a joint statement signed by the supervisor and the doctoral candidate. Conference abstracts and research reports do not count as publications. Intellectual products accepted under the University of Pécs Regulations may count in place of a non-first-author publication, with a value corresponding to half of the current discipline-specific median IF.

For doctoral students who began their studies before the 2016/2017 academic year:

- if the degree procedure begins more than five years after obtaining the absolutorium, the candidate must meet double the publication requirements in effect at the time,
- if the degree procedure begins more than ten years after obtaining the absolutorium, the candidate must fulfil the publication criteria applicable to individual applicants.

The Doctoral Degree Award Procedure and its Conditions

§ 16 (1) The prerequisite for initiating the doctoral degree award procedure is the acquisition of the absolutorium, which certifies the completion of the academic requirements. The management of Neptun and the issuance of the absolutorium are the responsibilities of the Registrar's Office, which compiles the credits at the end of the eighth completed semester and requests the approval of the Head of the Doctoral School. The initiation of the doctoral degree procedure is conditional upon the payment of the procedural fee and the submission of proof thereof.

(2) Procedure for obtaining the PhD degree for students enrolled in the **3-year program**:

The PhD procedure consists of two parts: the doctoral comprehensive examination and the defence of the dissertation.

Doctoral comprehensive examination. Upon obtaining the absolutorium, the candidate may apply for the comprehensive examination. The examination consists of one main subject and two secondary subjects. Based on the recommendation of the research group leader, the Head of the Doctoral School submits the proposed subjects to the DCS, which approves them. The list of examination subjects is contained in Annex 7. The examination committee consists of a chair — a full professor of the University of Pécs — and at least two members who hold scientific degrees. At least one committee member must be an external expert who is not employed by the University and not a core member of the Doctoral School. The supervisor of the candidate may not serve as a committee member. Close relatives or anyone who cannot be expected to act impartially may not serve on the committee. Except for the internal (pre-defence) presentation, a person may serve in only one role within the same doctoral procedure. Minutes must be taken of the examination. The committee decides by secret ballot, scoring from 1 to 5, on the acceptance of the examination. The classifications are: summa cum laude (above 85%), cum laude (71–85%), rite (60–70%). Below 60% the examination is unsuccessful.

Defence of the doctoral dissertation. After obtaining the absolutorium, the candidate may apply for the defence of the dissertation within two years from the approval of the successful comprehensive examination. Before its official submission, the dissertation must be discussed in an internal (pre-defence) presentation.

Acknowledgments should be written solely from a professional perspective. In addition to professional contributors, the support of family and friends may also be mentioned. Religious, gender-related, or political acknowledgments should be avoided. The pre-review process is organized by the respective supervisor.

Two reviewers must be invited for pre-review, at least one of whom must be an independent external expert. The material submitted for the internal defence must be made available at least one week before the defence. At least two core members and five supervisors must attend the internal defence; otherwise, it is invalid. During the internal defence, members of the audience with a scientific degree — except the opponents — may evaluate the dissertation by secret ballot using the following scale: 1–3: not acceptable; 4–6: major revisions required; 7–8: minor revisions required; 9–10: accepted with little or no change.

If the result of the internal defence does not reach the passing level (2.0), the candidate must revise and resubmit the dissertation, followed by another presentation. The candidate may proceed with the doctoral procedure only with the approval of the Council of the Doctoral School.

The dissertation must be submitted in one printed copy and one electronic copy (in .pdf format), in accordance with the formal requirements specified in Annex 2, and must be defended publicly before an evaluation committee. The invitation must include theses in both English and Hungarian that summarize the topic, methods, and new findings of the dissertation. The topic, date, venue, and accessibility of the public defence must be announced at least one week in advance. At the same time, the candidate sends written responses to the reviews to the opponents, the Doctoral School, and the secretary of the defence committee. The scheduling of the defence is authorized by the DCS upon the recommendation of the Head of the Doctoral School.

The defence committee consists of five voting members: the chair, two reviewers, and two additional members. The chair must be a full professor of the University of Pécs with relevant expertise, and all members must hold a scientific degree. One reviewer and at least one additional committee member must be external experts. The evaluation criteria are set out in Annex 3 of this regulation. The supervisor of the dissertation and any person whose impartiality might be in question may not be members of the committee. An alternate member must also be designated. The candidate's academic biography is read by either the secretary of the defence committee or the supervisor.

The committee decides by secret ballot, scoring from 1 to 5, on the result of the defence. The classifications are: *summa cum laude* (above 85%), *cum laude* (71–85%), *rite* (60–70%). Below 60% the defence is unsuccessful.

(3) Procedure for obtaining the PhD degree for students enrolled in the 4-year program:

Upon obtaining the *absolutorium*, the candidate may apply for the defence of the dissertation within three years following the successful completion of the comprehensive examination. This deadline may be extended — in cases of accident, illness, or other justified reasons beyond the candidate's control — by up to one year, or in the case of childbirth, by up to three academic years, as defined in §22(2) of the Doctoral Regulations of the University of Pécs.

The comprehensive examination consists of two parts, and its evaluation is conducted by a committee of at least three members appointed upon the recommendation of the Doctoral School and approved by the DCS. The chair of the committee must be a full professor of the University of Pécs, and all members must hold a scientific degree; at least one must be an external expert not employed by the University. The first, public part is the professional progress report, in which the committee participates to assess the advancement of the candidate's research. The committee votes on whether to accept the report. If the report is accepted by a qualified majority, the candidate may proceed to the closed part of the comprehensive examination. The deadline for completing the closed part is the end of the given academic semester. In the closed part, the candidate is examined by the committee in one major and one minor subject approved by the Council of the Doctoral School. The subjects related to the comprehensive examination are listed in Annex 8. The supervisor of the candidate may not serve on the committee. Close relatives or anyone who cannot be expected to act impartially may not serve on the committee. Except for the internal defence, a person may serve in only one role within the same doctoral procedure.

Before its official submission, the dissertation must be discussed in an **internal defence**. The pre-review process is organized by the supervisor after the student and supervisor have signed a declaration of originality. Two reviewers must be invited for pre-review, at least one of whom must be an independent external expert. The material must be made available at least one week before the internal defence. At least two core members and five supervisors must attend; otherwise, the

internal defence is invalid. During the internal defence, members of the audience with a scientific degree — except the opponents — may evaluate the dissertation by secret ballot using the same 1–10 scale described above. If the internal defence result does not reach the passing level (2.0), the candidate must revise and resubmit the dissertation, followed by another presentation. The candidate may proceed only with the approval of the Council of the Doctoral School. Acknowledgments should be written solely from a professional perspective. In addition to professional contributors, the support of family and friends may also be mentioned. Religious, gender-related, or political acknowledgments should be avoided.

The dissertation must be submitted in one printed and one electronic copy (in .pdf format), in accordance with Annex 2, and **defended publicly** before an evaluation committee.

The invitation must include theses in both English and Hungarian summarizing the topic, methods, and new results. The topic, date, venue, and accessibility of the public defence must be announced at least one week in advance through the usual institutional communication channels and on the website of the Doctoral School. At the same time, the candidate sends written responses to the reviews to the opponents, the Doctoral School, and the secretary of the defence committee. The scheduling of the defence is authorized by the DCS upon the recommendation of the Head of the Doctoral School.

The defence committee consists of five voting members: the chair, two reviewers, and two additional members. The chair must be a full professor of the University of Pécs with relevant expertise. One reviewer and at least one other committee member must be external experts not employed by the University. The evaluation criteria are set out in Annex 3. The supervisor of the dissertation and anyone whose impartiality might be in question may not be members of the committee. An alternate member must also be designated. The candidate's academic biography is read by either the secretary of the defence committee or the supervisor. The committee decides by secret ballot, scoring from 1 to 5, on the result of the defence. The classifications are the same as above: *summa cum laude* (above 85%), *cum laude* (71–85%), *rite* (60–70%). Below 60% the defence is unsuccessful.

Students who obtained the *absolutorium* at the Doctoral School but failed to submit their dissertation within the set deadline (by the end of the third academic year following the comprehensive examination) may, if they have met the output requirements (language proficiency, required publications) before the deadline, request an extension of the dissertation submission deadline for up to six months with justification and supervisor approval. This request is decided by the Council of the Doctoral School. If the output requirements have not been met by the deadline, they may, within one year, apply for admission as individual candidates to the doctoral program and obtain the degree under the standard publication requirements (two IF publications, one of them first-authored, impact index minimum 1). The procedure may be initiated only if the publication requirements are already fulfilled at the time of application. In such cases, the presentation given at the comprehensive examination (interpreted as the admission for individual preparation) must be organized in accordance with the requirements of the internal defence.

(4) Common rules for the doctoral dissertation:

The dissertation must include a concise review of the background knowledge related to the research topic, the research objectives, a description of the methods used, a presentation and documentation of the new research results proving the candidate's independent scientific work, a comparison of these results with previously known data and theories, a concise summary of the new findings, a

detailed list of references used, and a list of the candidate's relevant publications. It must also include the candidate's complete publication list and an English summary. With the approval of the Council of the Doctoral School, the dissertation may be submitted in English. The procedural fee for a foreign-language dissertation differs from that of a Hungarian-language one.

The theses presenting the subject, methods, and new results of the dissertation should be approximately 10 pages in length. Beyond this limit, only the references and a list of the candidate's related publications may be included. The theses must be submitted in both Hungarian and English, except for students enrolled in foreign-language programs, who are exempt from preparing Hungarian theses.

The formal requirements for the dissertation are provided in Annex 2. The dissertation and theses must be submitted in both printed and electronic form (one copy each).

The doctoral dissertation and its theses are public. Their full text, in both printed and electronic form, is made available through the Doctoral School in cooperation with the University Library and Knowledge Centre (hereinafter: Library). One printed and one electronic copy are archived according to the following procedure: the dissertation and theses are catalogued and stored in full-text electronic form in a separate database — the doctoral repository of the Pécs University Archives (PEA) — maintained by the Library. Before the defence procedure, the Doctoral School ensures the upload of the materials to the repository. After data verification, the Library places the files in the PEA collection titled "Dissertations Pending Defence." In addition to the repository, the dissertation (in the language of defence) and its theses (in Hungarian and English) must be made accessible to the public via the University website and the website www.doktori.hu.

(5) Regarding assessments (examinations, comprehensive examination) conducted during the doctoral program and the available appeal procedures, in matters not regulated by this Regulation, the provisions of the Study

Initiation of the Habilitation Procedure

§ 17 (1) Professionals engaged in a subfield of biological sciences with significant higher education and research achievements may submit a habilitation application to the Doctoral School.

(2) As a first step, the Head of the Doctoral School appoints two preliminary reviewers to assess the submitted materials. The reviewers may not be employees of the Faculty of Science, University of Pécs (PTE TTK), and, in the case of an external applicant, may not be employees of the institution from which the applicant submits the materials for evaluation. Based on the unanimous positive opinions of the preliminary reviewers, the official application materials must be compiled in accordance with the format prescribed by the DCS, taking into account the specific characteristics of the discipline. After the administrative verification conducted by the Secretary of the Doctoral School, the Head of the Doctoral School submits the materials to the DCS and proposes two official reviewers. The minimum requirements related to teaching and research activities are set out in Annex 5 of this Regulation. The criteria for evaluating the habilitation application are specified in Annex 6.

(3) After the official reviewers' opinions have been received, the Head of the Doctoral School initiates the public phase of the procedure in accordance with the currently effective habilitation regulations of the University Habilitation and Habitus Examination Council and the DCS.

Quality Management

§ 18 (1) The Quality Assurance Plan and Quality Policy of the Doctoral School are adopted by the DCS based on the proposal of the Council of the Doctoral School. The Quality Policy must be reviewed at least once a year, a responsibility of the Council of the Doctoral School.

(2) The Council of the Doctoral School annually approves the quality objectives set by the Head of the Doctoral School and evaluates their fulfilment after the respective deadlines.

(3) The publication of the Quality Assurance Plan, Quality Policy, and quality objectives shall be carried out in accordance with §19.

(4) During their studies, students participating in the doctoral training may, each semester, express their opinions regarding the teaching activities and the quality of education provided by instructors employed by the University or working under any other contractual relationship. This is done in accordance with the University's regulations on student evaluation of teaching performance.

Ensuring Publicity

§ 19 The Doctoral School publishes the following documents and data concerning its operation on its official website:

- a) The Organizational and Operational Regulations of the Doctoral School, which are also published in the national doctoral database (hereinafter: HDC database) at <http://doktori.hu>;
- b) Training Plan;
- c) Quality Policy;
- d) Quality Assurance Plan;
- e) Quality Objectives and their Evaluation;
- f) Organizational Structure (Organogram);
- g) Doctoral Regulations of the University of Pécs;
- h) Code of Studies and Examinations of the University of Pécs
- i) Code of Charges and Benefits of the Statutes of the University of Pécs
- j) Amounts of tuition fees for the doctoral programs;
- k) Amounts of training fees;
- l) Any other data whose publication is decided by the Council of the Doctoral School pursuant to §5 (5) o) of this Regulation..

Fees Related to Doctoral Training

§ 20 (1) The fees charged by the Doctoral School are listed in Annex 4 of this Regulation.

(2) Doctoral candidates are required to pay the following procedural fees:

- a) Doctoral degree procedure fee, which is at least four times and at most eight times the current public service allowance base;
- b) Comprehensive examination fee, which equals the current public service allowance base;
- c) Defence fee, which is at least six times and at most ten times the current public service allowance base.

(3) Doctoral students who began their studies before the 2016/2017 academic year must pay the fees specified in paragraph (2) during the doctoral procedure. Doctoral students who began their studies in or after the 2016/2017 academic year, and whose defence takes place after the termination of their student status, are required to pay only the defence fee as a procedural fee.

(4) The current procedural fees are published by the Doctoral School on its website in accordance with §19.

(5) In the case of a doctoral degree procedure conducted in a foreign language, the procedural fee may differ from the amount specified in paragraph (2), but it may not exceed twice the fee applicable to a Hungarian-language procedure.

(6) The doctoral degree procedure is free of charge for doctoral students while their student status is active.

(7) If the submitted PhD dissertation exceeds 100 pages in the main text, a 50% surcharge shall be added to the defence fee.

Final, Transitional and Entry-into-Force Provisions

§ 21 (1) This Regulation enters into force on the date of its adoption, upon which the Organizational and Operational Regulations of the Doctoral School of Biology and Sport Biology adopted on 24 November 2024 shall cease to be in effect.

(2) In matters not regulated by this Regulation, the applicable provisions of the following shall prevail:

Act CCIV of 2011 on National Higher Education;

Government Decree 87/2015 (IV.9.) on the implementation of certain provisions of the Act on National Higher Education;

Government Decree 387/2012 (XII.19.) on doctoral schools, doctoral procedures, and habilitation;

the Doctoral Regulations of the University of Pécs and other internal regulations of the University.

Pécs, 11 November 2025

Prof. Dr. Gábor Lente
Chair of the Doctoral Council of Sciences

Prof. Dr. Róbert Gábor
Head of the Doctoral School

Clause:

The present Regulation was adopted by the Doctoral Council of Sciences at its meeting held on 11 November 2025 by Resolution No. PTE/136538-2/2025.

Annexes

1. General compulsory courses for all students of the Doctoral School
2. Formal requirements of the theses and dissertations, and declaration of originality
3. Evaluation criteria for reviewers of PhD dissertations
4. Procedural fees charged by the Doctoral School
5. Habilitation requirements
6. Evaluation criteria for habilitation applications
7. Comprehensive examination subjects of the Doctoral School in the three-year program
8. Comprehensive examination subjects of the Doctoral School in the four-year program

Annex 1

General compulsory courses for all students of the Doctoral School

Compulsory courses for all students of the Doctoral School:

English for Professional Use	Lecturer: Dr. Róbert Gábrriel
Biostatistics	Lecturer: Dr. Zoltán Csabai
History of Biology and its Philosophical Aspects	Lecturer: Dr. Gyula Hoffmann
Bioinformatics	Lecturer: Dr. Gábor Kemenesi
or	
Molecular Bases of Physical Activity	Lecturers: Dr. Márta Wilhelm, Dr. Tamás Atlasz, Dr. Éva Tékus, Dr. Márk Váczi

The further list of courses available in each semester changes continuously; the subjects listed in Annex 8 serve as a general guideline.

Annex 2

Formal requirements of the theses and dissertations

Dissertation main text: Times New Roman font size 12, or Arial font size 10; line spacing 1.5. Length (without appendix): minimum 60, maximum 100 pages. The appendix may not exceed 20 pages, with the same formatting requirements.

The internal title page must include the signatures of the supervisor and the Head of the Doctoral School.

UNIVERSITY OF PÉCS
(16 bold, capitals)

Doctoral School of Biology and Sport Biology
(12 lower case)

Title of the PhD Thesis
(16 bold, lower case)

PhD Thesis
(12 bold, lower case)

Name
(16 bold, lower case)

PÉCS, year
(16 bold, capitals)

UNIVERSITY OF PÉCS
(16 bold, capitals)

Doctoral School of Biology and Sport Biology
(12 lower case)

Title of the PhD Thesis
(16 bold, lower case)

PhD Thesis
(12 bold, lower case)

Name
(16 bold, lower case)

Supervisor:
(12 lower case)

Name
(12 bold, lower case)

academic degree
(12 lower case)

Signature of Supervisor

Signature of Head of School

PÉCS, year
(16 bold, capitals)

UNIVERSITY OF PÉCS

(16 bold, capitals)

Doctoral School of Biology and Sport Biology

(12 lower case)

Title of the PhD Thesis

(16 bold, lower case)

PhD Thesis

(12 bold, lower case)

Name

(16 bold, lower case)

Supervisor:

(12 lower case)

Name

(12 bold, lower case)

academic degree

(12 lower case)

PÉCS, year

(16 bold, capitals)



Submission of the Doctoral Dissertation and Declaration of Originality

The undersigned:
Name:
Birth name:
Mother's name:
Place and date of birth:

I hereby submit my doctoral dissertation entitled:

.....
.....

to the Doctoral School of Biology and Sport Biology

Supervisor(s):

Keywords (minimum 5):

.....

At the same time, I declare that the doctoral dissertation submitted in this procedure:

- has not previously been submitted to another doctoral school (at any Hungarian or foreign university),
- my application for a degree procedure has not been rejected within the past two years,
- I have not had an unsuccessful doctoral procedure within the past two years,
- my doctoral degree has not been withdrawn within the past five years,
- my dissertation is my own independent work, I have not presented another person's intellectual product as my own, the references are clear and complete, and I have not used false or falsified data in preparing the dissertation.

Date:

.....
Signature of candidate

Certification by the Faculty Office

I hereby acknowledge receipt of the doctoral dissertation with the above title.

Pécs, year month day

.....
Signature

Seal

Annex 3

Evaluation criteria for reviewers of PhD dissertations

One of the fundamental requirements for obtaining the university doctoral (PhD) degree is the preparation of a doctoral dissertation based on independent research, presenting new scientific results. The professional value and prestige of the doctorate awarded at the Faculty of Science, University of Pécs, is further enhanced by the fact that the dissertation is subjected to public defense following the evaluation of independent reviewers. Objective assessment of dissertations is supported if the reviews are prepared according to uniform criteria. We ask reviewers to address the following aspects in forming their opinion:

1. What scientific interest is expected in relation to the dissertation's topic?
2. Structure, proportions, and logical organization of the work.
3. Assessment of the candidate's theoretical preparedness, based on the literature review of the field.
4. Level and modernity of the research methods applied.
5. Scientific value of the work: highlighting new scientific results, pointing out debatable issues (with reference to their discussion during the defence).
6. Questions concerning the whole dissertation or specific parts (not only controversial issues but also supplementary information). Any statement, conclusion, or result considered incorrect by the reviewer must be mentioned.
7. Language, style, clarity, and presentation of the dissertation (figures, demonstration material).
8. The review must be written in the language of the dissertation; if the defence language differs, then in the defence language.
9. The review must clearly state whether the dissertation is considered suitable (or not) for public defence, and subsequently for the award of the doctoral degree. The dissertation itself is not graded. If the review is prepared for the home defence, the reviewer must instead declare whether they recommend the submission of the dissertation.
10. The detailed review should be concluded with **a short summary (approx. 1 page)**, which the reviewer will read verbatim at the defence, followed by questions and a proposal regarding the award of the degree. Other details of the review need not be read but may naturally be raised during the public debate.

Annex 4

Procedural fees charged by the Doctoral School

Doctoral candidates (those who have obtained the absolutorium in the three-year program) and former doctoral students who have obtained the absolutorium in the four-year program but no longer have an active student status are required to pay the applicable minimum procedural fees as defined in the Tuition and Benefits Regulations of the University of Pécs.

If the submitted PhD dissertation exceeds 100 pages in the main text, an additional fee of 50% will be charged on top of the defense fee.

In the case of a doctoral procedure conducted in a foreign language, the procedural fee may differ from the rate specified in the regulations; however, it may not exceed twice the fee for the doctoral procedure conducted in Hungarian.

For doctoral students, the doctoral procedure is free of charge during the period of their active student status.

Annex 5

Habilitation requirements

1	Teaching / Educational Development Activity	Evaluation	Explanation / Comment
1.a.	Delivering lectures / practical classes (min. 8 semesters; 2 points/lecture, 1 point/practical). A minimum of 8 points must be achieved; a maximum of 14 points can be awarded.		When a minimum and maximum score are defined, the minimum must be achieved, and the maximum is the highest possible score.
1.b.	Supervision of OTDK theses: 2 points/thesis; OTDK placement (I–III): +2 points; supervision in doctoral training: 4 points/student (min. 4, max. 14 points).		Co-supervision is counted with a 0.5 multiplier. Every started PhD supervision counts. For OTDK, the number of theses (not students) is relevant.
1.c.	Teaching in English (or German) or hosting a foreign student: 2 points/semester (max. 6 points).		
1.d.	Textbook or course material (8 points/printed, 4 points/electronic), max. 8 points.		The number of co-authors and the length of the material must be considered, as assessed by the committee.
1.e.	Supervision of BSc/MSc theses (1 point/thesis), max. 8 points.		Only successfully defended theses count.
	Σ Teaching / Educational Development Activity min. 30, max. 50 points		Minimum required: 30 points
2	Scientific Achievement	Evaluation	Explanation / Comment
2.a.	Impact index minimum: 12. Minimum requirement achieved: 15 points.		
2.b.	For every +0.5 impact index above the minimum: +1 point (max. 6 points).		
2.c.	80 independent WoS (Scopus/Google Scholar) citations (minimum requirement): 5 points.		Alternatively, 150 independent, validated MTMT citations are also acceptable.
2.d.	For each citation above 80 independent WoS (or 150 independent citations): +0.1 point (max. 5 points).		Applies above 80 WoS or 150 total independent citations.
2.e.	Three first- or last-author papers with impact factor (minimum requirement): 5 points.		In supra-individual biology, one non-impact, peer-reviewed English paper may also count.
2.f.	Each additional first- or last-author paper: +0.5 point (max. 2 points).		In supra-individual biology, non-impact, peer-reviewed English papers may also count.
2.g.	Principal investigator / contributor in research projects (international: 2 points/year, national: 1 point/year; contributor: ×0.5 multiplier), max. 8 points.		Only listed participants count. In large consortial projects, subproject leaders may receive PI points, as decided by the committee.
2.h.	International collaboration (verified joint research project): 2 points/project (max. 4 points).		A partner's confirmation letter is required for longer cooperation. No letter is needed if joint grant or paper exists.
	Σ Scientific Achievement min. 30, max. 50 points		Minimum required: 30 points
	TOTAL POINTS (minimum 70 points required)		Minor compensation between teaching and research is allowed (e.g., 40+30 or 30+40 points).

At least 75% of the candidate's scientific achievements (publications, citations, number of papers) must originate from one chosen scientific field (supra- or infra-individual biology). The candidate's classroom and scientific lectures must also cover topics within the same scientific field. For applicants employed by the University of Pécs, it is a requirement that they have achieved at least 75% in each of their two most recent performance evaluations (TÉR).

Annex 6

Evaluation criteria for habilitation applications

1. Teaching, course lecturing, and teaching material development activities

- Higher education teaching activities
- Development of teaching materials
- Participation in student research activities
- Quality assessment of higher education teaching
- Organizational activities related to higher education

2. Participation in scientific training, contribution to the development of a scientific school, and measurable achievements in teaching and research management

- Connection to national and international research areas
- Participation in doctoral education
- Evaluation of new research results, impact factor, and citation count

3. Achievements in professional and scientific public life activities

- Membership in national and international scientific societies
- Membership in editorial boards of scientific journals, review activities, and leadership or organizational roles in scientific and educational work

Annex 7

Comprehensive examination subjects of the Doctoral School in the three-year program

Main subjects:

Cell biology of neurons	Neurobiochemistry
Animal ecology	Neurobiology
Genetics	Neuropharmacology and toxicology
Fungal ecology	Neurophysiology
Fundamentals of immunology	Neurology
Forest associations of Hungary	Plant physiology
Treeless associations of Hungary	Plant taxonomy
Mycology	Plant anatomy
Microbiology	Psychophysiology
Molecular biology	Sport biology
Motor control	Vegetation science
Neuroanatomy	Virology

Minor subjects:

Allelopathy	Phytogeography of Hungary
Methods for studying animal populations	Pollination biology
Hydroecology of running waters	Microbial biotechnology
Archaeobotany	Patterns and mechanisms in vegetation dynamics
Anatomy and taxonomy of the epidermis	Neuroendocrinology
Neurobiology of the sensory organs	Neuroimmunology
Biological markers and physical activity	Plant stress physiology
Biomechanics	Recombinant DNA techniques
Electrophysiology	Sport psychology
Yeast genetics	Sports nutrition
Molecular analysis of yeast cell life processes	Statistical methods in supra-individual biology
Separation techniques	Computer-based sequence analysis
Pharmacobotany	Sleep dynamics
Developmental biology	Nutritional ecology
Phytochemistry	Marine ecology
Photosynthesis	Exercise physiology
Flora and vegetation in urban environments	Vegetation dynamics
Weed biology	Trends in vegetation research
Histotechnology	Flower anatomy
Human pathogenic fungi	Floral biology
JNP models	Flower morphology
Conservation biology	

Appendix 8

Comprehensive examination subjects of the Doctoral School in the four-year training programme

Sport Biology Subject Group – Comprehensive Examination Subjects

Main subjects:

1. Sports biomechanics
2. Exercise physiology

Special subjects:

1. Biological markers and physical activity. Fitness assessment
2. Sports biochemistry. Metabolism and physical activity. Endocrinological changes induced by exercise
3. Characteristics of stress, relationship between stress and physical activity. Exercise physiology testing
4. Cardiovascular and respiratory physiology. The effects of exercise on the cardiovascular system
5. Motor control. Neuro-mechanical bases of skeletal muscle function
6. Sports anthropometry. Methods of sports biomechanics
7. Sports psychology. Legal and illegal performance enhancement
8. Sports medicine and nutrition
9. Sports pedagogy. Methodology of sport-specific education

Regulatory Biology Subject Group – Comprehensive Examination Subjects

Main subjects:

1. Comparative neurobiology
2. Cell biology of the neuron

Special subjects:

1. Neuroanatomy
2. Neurobiochemistry
3. Neuropharmacology and toxicology
4. Neurophysiology
5. Neurology
6. Psychophysiology
7. Neurobiology of sensory organs
8. Electrophysiology
9. Histotechnology
10. Neuroendocrinology
11. Neuroimmunology

Genetics and Microbiology Subject Group – Comprehensive Examination Subjects

Main subjects:

1. Genetics
2. Microbiology
3. Virology

Special subjects:

1. Yeast genetics
2. Molecular analysis of yeast cell life processes
3. Separation techniques
4. Developmental biology
5. Microbial biotechnology
6. Recombinant DNA techniques
7. Computer-based sequence analysis
8. Bioinformatics
9. Applied clinical microbiology
10. Applied industrial microbiology
11. Applied environmental microbiology

Synecology Subject Group – Comprehensive Examination Subjects

Main subject:

1. Synecology

Special subjects:

1. Ecology of running waters
2. Biogeography
3. Biostatistics
4. Invasion biology
5. Conservation biology
6. Community ecology
7. Population ecology
8. Supra-informatics
9. Sleep dynamics
10. Vegetation science
11. Behavioural ecology
12. Population genetics
13. Role of citizen science

Plant Biology Subject Group – Comprehensive Examination Subjects

Main subject:

1. Plant biology

Special subjects:

1. Plant stress physiology
2. Photosynthesis
3. Plant anatomy
4. Plant morphology
5. Phytochemistry
6. Hormonal regulation in plants
7. Plant molecular biology and genetics
8. Plant biotechnology
9. Morphology and physiology of grapevine