



**The Hungarian University of Agriculture and Life
Sciences
Doctoral School of Engineering Sciences
Training Plan**

**This Training Plan applies to
students who commenced their studies after 1 September 2026**

Gödöllő, 2026.

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PREAMBLE

The research areas of the Doctoral School of Technical Sciences (hereinafter: MTDI) build upon the research profiles established on the basis of the Doctoral Schools of Technical Sciences and of Landscape Architecture and Landscape Ecology, which previously operated at the Hungarian University of Agriculture and Life Sciences (MATE) and its predecessor institutions, scientific achievements and networks.

Within the MTDI, the Doctoral Programme in Engineering Sciences (MTDP) is based on the module groups of Agricultural Energy, Environmental Engineering and the Fundamentals of Agricultural Engineering, which were approved by the Hungarian Accreditation Committee (MAB) in 1993 and subsequently provisionally accredited in 2000. It received final accreditation in agricultural engineering in 2002.

Agricultural energy and environmental engineering, general and agricultural engineering, agricultural engineering informatics and economics, and agro-mechatronics play a prominent role in both research and the modules taught.

The date of the most recent successful accreditation as an independent doctoral school: 2024.

The legal predecessor of the Doctoral School of Landscape Architecture and Landscape Ecology was the 'Landscape Architecture' doctoral programme, accredited in 1993, and the "Decision Support Systems in the Food Economy", the Doctoral School of Interdisciplinary Agricultural Sciences – established by merging these two and accredited in 2002 – and the Doctoral School of Landscape Architecture and Decision Support Systems, accredited in 2007. The Doctoral School of Landscape Architecture and Landscape Ecology was established in 2009.

The date of its most recent successful accreditation as an independent doctoral school is 2024.

The MTDI continues the traditions and scientific research of its two predecessor doctoral schools (the Doctoral School of Engineering Sciences and the Doctoral School of Landscape Architecture and Landscape Ecology).

Within the current operational framework, the following doctoral programmes are offered:

- Doctoral Programme in Engineering Sciences
- Doctoral Programme in Landscape Architecture and Landscape Ecology.

The MTDI Curriculum is based on the following legal sources and regulations:

- Act CCIV of 2011 on National Higher Education (hereinafter: Nftv.),
- Government Decree No. 87/2015 (9 April) on the implementation of certain provisions of Act CCIV of 2011 on National Higher Education,
- Government Decree No. 387/2012 (19 December) on doctoral schools, the procedure for doctoral studies and habilitation,
- Government Decree No. 121/2013 (26 April) on the Education Office,
- the Rules of Procedure adopted by Resolution No. 2024/7/XX of the Board of the Hungarian Higher Education Accreditation Committee (hereinafter: MAB). (Amended by Resolutions Nos. 2025/1/XV, 2025/4/VIII and 2025/5/XIV. Effective from 1 January 2025.)
- Government Resolution No. 1229/2012 (6 July) on tasks relating to the introduction of the Hungarian Qualifications Framework [hereinafter: Government Resolution No. 1229/2012 (6 July) Government Decision], and Government Decision No. 1004/2011 (14 January) on the establishment and introduction of the National Qualifications Framework.

In respect of matters not covered in this document, MATE's current regulations shall apply.

BASIC INFORMATION ON THE MTDI

Name of the doctoral school, abbreviated name:	Műszaki Tudományok Doktori Iskola, MTDI
Name of the doctoral school, abbreviated name in English:	Doctoral School of Engineering Sciences
Classification of the doctoral school by field of study:	engineering sciences
Discipline(s) of the doctoral school:	agricultural engineering
Name(s) of the doctoral school's programme(s):	Doctoral Programme in Engineering Doctoral Programme in Landscape Architecture and Landscape Ecology
Name(s) of the doctoral school's programme(s) in English:	Doctoral Programme in Mechanical Engineering Doctoral Programme in Landscape Architecture and Landscape Ecology
Name of the doctoral degree conferred:	PhD
Location of the doctoral school:	Gödöllő/Budapest
Postal address of the doctoral school:	2100 Gödöllő, Páter Károly u. 1./ 1118 Budapest, Villányi út 35/43.
Doctoral school website address:	https://doktori.uni-mate.hu/muszaki-tudomanyok-doktori-iskola/bemutakozas
Doctoral School ODT ID:	70
Year the doctoral programme began:	2000
Head of the doctoral school:	László Bozó
Name, position, email address and telephone number of contact person(s):	Mónika Hajdú, Erzsébet Judit Boncsér
Duration of the programme:	4 years
Programme format:	Full-time, organised doctoral programme funded by Hungarian state scholarships and self-financing, as well as cooperative doctoral programmes
Language of instruction:	Hungarian/English

1. PRESENTATION OF THE DOCTORAL PROGRAMME

1.1. The conceptual framework of the doctoral programme

The Doctoral Programme in Engineering Sciences (hereinafter: MTDP) covers the fields of engineering and agricultural engineering, including agricultural energy and environmental engineering; general and agricultural engineering (research in materials science and technology, vehicle engineering, tribology, and structural mechanics); agricultural engineering informatics and economics; and agro-mechatronics. The programme focuses on system- and management-oriented processes, technologies, and product lifecycle planning, as well as the associated fundamental and applied research, with particular emphasis on modern challenges in mechanical engineering, materials science (e.g., metallic and non-metallic structural materials), and measurement technology.

The Doctoral Programme in Landscape Architecture and Landscape Ecology (hereinafter: TTDP) is a unique doctoral programme in Hungary. The TTDP aims to encompass those areas of scientific research and development, and those tasks, which involve the complex investigation of issues in landscape architecture, landscape ecology and the environment, and the scientific underpinning of planning, development, renewal, protection and rehabilitation, through scientifically grounded planning theory, risk and impact assessments, and strategic development planning; furthermore, it addresses climate impacts and the modelling of natural and human-influenced ecological systems within the fields of ecology and landscape ecology. Due to the complexity of the ecological and landscape/spatial systems under investigation, the research relies heavily on methods from design engineering, mathematics and statistics, and computer science/geoinformatics.

1.2. Entry requirements for the doctoral programme

The detailed conditions for applying for and being admitted to the doctoral programme are set out in Sections 13–15 of the University Doctoral Regulations (hereinafter: EDSZ). The areas to be assessed during the admission interview, along with their respective marks, are set out in Section 14 of the EDSZ.

Those holding a university degree relevant to the MTDI's profile may apply for admission to the MTDI.

The specific entry requirements for the MTDP when applying for the organised programme are as follows:

- Applicants must hold a Master's degree with a grade of at least 'good' in a module related to the MTDP, or a certificate attesting to an equivalent university-level qualification or professional qualification.
MSc qualifications relevant to the field:
mechanical engineering, mechatronics engineering,
electrical engineering,
materials engineering,
automotive engineering,
architectural engineering,

civil engineering,
 facilities engineering,
 technical manager,
 chemical engineering,
 computer engineering,
 physicist.

Should a candidate apply with a degree in another engineering discipline, the MTDP Council will decide whether to grant admission, subject to the candidate sitting supplementary examinations.

- If the degree classification is lower than ‘good’ or does not correspond to the relevant field, admission requires at least five years’ verified and successful research or design experience in the relevant module, the results of which must be presented at the admission interview.
- Proof of research activity related to the selected topic, which has been ongoing for at least one year (e.g. work in a student research society, departmental research, academic publications), is required.
- Proof of a secondary-level ‘B2’ or ‘C’ type state language examination is required in one of the world languages (English, German, French, Russian, Spanish, Italian).
- For students whose first language is not Hungarian, a minimum intermediate level of English is an absolute requirement for admission.
- A recommendation from a recognised expert, a statement of acceptance from the supervisor, and a statement from the head of the host department confirming the availability of the necessary infrastructure are also required, as well as the submission of a research work plan agreed with the prospective supervisor (Appendix 4).

The following Master’s programmes are eligible for the TTDP:

- agricultural engineering,
- applied mathematics,
- ecology,
- architectural engineering,
- horticultural engineering,
- environmental engineering,
- environmental scientist,
- meteorologist,
- landscape architect,
- landscape architecture,
- urban planning,
- agricultural engineering for rural development.

The Admissions Committee decides on the admission of students who have obtained a degree in master’s programmes not included in the list on a case-by-case basis. For students from

programmes not eligible for automatic admission, the Admissions Committee recommends including modules from the list of optional modules to lay the foundations for research.

Specific entry requirements for programmes organised by the TTDP:

- Proficiency in the intended field of research. Applicants may demonstrate this proficiency through the information provided in their CV, which outlines their previous work.
- Evidence of the applicant's professional and/or academic work to date.
- Preparation of a 5–7-page research proposal (Appendix 4).
- A fundamental requirement for application and admission is a supporting recommendation from the selected supervisor, in which they also declare, on their own responsibility, that the candidate is suitable.
- In line with the university's admissions requirements, the TTDP requires candidates to have passed a first language examination, which must be an intermediate 'C' type or 'B2' level state language examination, or an equivalent qualification, in one of the world languages required by the MTDI. Only English, German, Russian, French, Italian, and Spanish may be considered basic requirements or additional language examinations. In particularly justified individual cases, the TTDP Admissions Committee or the MTDI Academic Board may decide to accept other languages. For students whose mother tongue is not Hungarian, the language proficiency requirements are set out in the MTDI Rules of Procedure.
- Submission of application documents.
- Attendance at the TTDP entrance examination, the conduct of which is overseen by the TTDP Admissions Committee.

1.3. Learning outcomes

In accordance with the objectives of the MTDI and Level 8 of the Hungarian Qualifications Framework (MKKR) – as set out in Government Decree No. 1229/2012 (VII. 6.) – the competences of professionals who have obtained a doctoral degree through the MTDI programme in the field of agricultural engineering/engineering are as follows:

Knowledge

Possesses research-level knowledge of the conceptual framework and terminology of agricultural engineering sciences, including landscape architecture and landscape ecology, as well as the technical sciences. Possesses the research methodological knowledge necessary for the independent investigation of theoretical research questions applied in the examination of the ecological, environmental, spatial and human factors of landscape architecture and landscape ecology processes.

Possesses a comprehensive, research-level theoretical and practical knowledge base in engineering and agricultural engineering sciences, in particular general and agricultural engineering, materials science, energy engineering and mechatronics.

The primary aim of designing the training programmes is to ensure that doctoral students are capable of conducting high-quality scientific work. To this end, they acquire the ability to analyse and synthesise specialist literature at a scientific level, as well as to plan and conduct primary and secondary research.

A further requirement is the mastery and application of scientific methodology throughout their research work. Doctoral students must demonstrate these skills and abilities through the preparation and disputation of their doctoral dissertations. The study modules set out in the MTDI Training Plan, as well as the course descriptions, which clearly set out the expected learning outcomes in accordance with Level 8 of the MKKR and which are reviewed at least every two years by the Council for the Discipline of Engineering Sciences (hereinafter: TTT).

Skills

Capable of planning and implementing projects, conducting independent research, and developing new techniques and approaches.

Professionals who have obtained a doctoral degree in the MTDP programme are capable of modelling and simulating complex mechanical, mechatronic, and environmental engineering systems, as well as independently conducting measurement and experimental design procedures.

They are capable of developing new materials technology and mechanical engineering processes, as well as publishing their research findings in leading international scientific journals (classified as D1, Q1 or Q2).

A specialist who has obtained a doctoral degree at the TTDP is capable of creatively analysing the practical and theoretical aspects of examining the ecological, environmental, spatial and human factors of landscape architecture and landscape ecology processes; to evaluate them comparatively and critically, to formulate and communicate new connections, to apply and further develop research methods, to put new theories into practice, to identify unforeseen professional problems, and to explore the theoretical and practical background necessary for researching and resolving them.

Attitudes

Based on the Salzburg Principles of the MTDI (primarily principles 1, 4, 8 and 9), the programme aims to foster the appropriate attitudes:

- 1. A fundamental element of doctoral programmes remains the production of novel scientific findings based on original research;** however, it must be borne in mind that doctoral programmes must also, to an ever-greater extent, meet the expectations of the labour market outside academia.
- 4. Doctoral students are early-stage researchers:** even at this early stage of their careers, they must be regarded as professionals with equal rights who make a significant contribution to the generation of new scientific findings.

- 8 **Support for innovative solutions:** creating the conditions for interdisciplinary training; integrating training in transferable skills into doctoral programmes.
9. **Increasing mobility:** doctoral programmes should seek ways to support geographical, interdisciplinary and cross-sectoral mobility, as well as international collaborations. All this should take place within an integrated framework based on cooperation between universities and other partners.

They possess the curiosity and ability to learn that enable them to identify and solve research problems in their field.

They carry out their work with perseverance, a strong professional commitment and a willingness to explore new avenues.

They are committed to technical innovation, complex quality management and technological development, and carry out their work with a focus on quality and an openness to interdisciplinary approaches.

Autonomy and responsibility

With creative and independent initiative, they develop and pioneer new fields of knowledge and devise new practical solutions.

They are capable of engaging as an equal and a discussion partner with stakeholders in the academic and corporate ecosystems, and with experts in the field.

They take on the responsibility of raising and addressing new ethical issues.

Takes responsibility for the independent planning and management of industrial and academic research and development (R&D) projects, while strictly adhering to the principles of academic integrity, copyright (e.g. avoiding plagiarism, the ethical use of AI) and engineering ethics in their work.

2. OPERATIONAL STRUCTURE AND GENERAL CHARACTERISTICS OF THE MTDI

The general governing rules for doctoral programmes are laid down in the EDSZ.

2.1 Forms of organised doctoral programmes

Doctoral programmes at the University may be undertaken in the following forms:

- a) organised full-time day-release programmes funded by Hungarian state scholarships;
- b) self-funded, full-time, daytime organised programmes;
- c) Co-operative doctoral programmes (Section 3(20) of the EDSZ).

In accordance with Section 16 of the EDSZ and the relevant statutory provisions, the duration of organised doctoral programmes is 8 semesters, during which students must complete at least 180 credits.

2.2 Phases of organised doctoral programmes

The organised doctoral programme consists of two stages: the first four semesters comprise the ‘training and research’ stage, while semesters 5 to 8 comprise the ‘research and dissertation’ stage. At the end of the fourth semester, as the conclusion of the training and research phase and as a prerequisite for commencing the research and dissertation phase, students must sit a complex examination that assesses their academic and research progress.

- In the MTDP programmes, students’ academic and research progress – in line with the European principles of student-centred education and transparent assessment (ESG 1.3) – is monitored by a compulsory, half-yearly Progress Control (PC) reporting system, under which students must report on their work for the given half-year to the Research Monitoring Committee (KEB) each half-year. A strict condition for admission to the complex examination is the acquisition of at least 90 credits during the first four semesters (training and research phase), including the full completion of the required 30 academic credits. In addition, students must also meet the minimum publication requirements for their respective programmes (e.g. for the MTDP, a minimum of 2 accepted articles, one of which should ideally be classified as WOS/Scopus Q2;
- In the case of the TTDP (), admission to the complex examination is conditional upon the acquisition of at least 90 credits during the first four semesters (training and research phase), including the full completion of the required 40 academic credits. In addition, the student must meet the minimum publication requirements of the programme (1 journal article published or accepted for publication and 2 full conference papers, both related to the topic of the doctoral research).

2.3 Individual degree conferment

For independent applicants, the basic requirement for admission is at least five years’ documented and successful experience as a researcher, designer or developer, a degree in the relevant specialisation (at Master’s level or an equivalent university-level qualification), and outstanding publication activity closely related to the field of research (at least 75 per cent of the minimum mark required for the degree). If the candidate’s degree is not in the relevant field, the Programme Committee may require them to pass supplementary examinations before commencing the degree programme. Candidates undertaking individual preparation will enrol directly into the research and dissertation phase upon successfully meeting the language and publication requirements and passing the complex examination.

With regard to further detailed regulations, the provisions set out in Section 21 of the EDSZ and the MTDI Regulations shall apply.

2.4 Structure of the MTDI training programme

During the doctoral programme, students must complete a total of 180 credits over 8 semesters. The minimum number of academic credits is 30, to be obtained during the first four semesters, in accordance with the structure set out in the model curriculum for the doctoral programme. Students may enrol in both Hungarian- and English-language modules.

Compulsory modules

General Research Methodology (10 credits) is a compulsory module in both MTDI programmes. The research methodology module introduces students to the main methods used in social and technical sciences research and the possibilities each offers. We address the importance of critically analysing the literature, formulating research questions, and employing methods for hypothesis generation and testing. Preparation for the publication of results forms part of the methodological training.

Compulsory elective module

In doctoral programmes, students select courses from the programme-specific range of modules in consultation with their supervisor and the module coordinator. These module-specific courses build on the previous ‘compulsory’ courses and serve to provide the theoretical and methodological foundations for the research areas prioritised by the MTDI.

The compulsory elective modules of the MTDP (8 credits per module) are: Theory and Practice of Technical Research, Research Ethics, and Modelling and Simulation. Completion of one of these modules is compulsory for all scholarship and self-funded students.

There are no compulsory elective modules in the TTDP.

Elective modules

Elective modules (6 credits per module) support a narrower specialisation within the research topic.

Examples of elective courses offered in the MTDP include: Materials Science, Mechanical Analysis of Agricultural Machinery, Classical Mechanics, Off-Road Driving Theory, Vehicle Dynamics, Experimental Design, Measurement Technology, and Differential Equations. According to the sample curriculum, students are recommended to take two of these modules. The range of modules on offer may vary in line with periodic reviews.

In the case of the TTDP, during the period of study, doctoral students must complete, in addition to the compulsory module, four freely selected modules that support their research (Appendix 2). If justified by the selected topic, modules from other doctoral schools may also be taken as freely selected modules, subject to the supervisor's agreement. The TTDP awards a standard 4 credits for courses completed at other doctoral schools.

2.6 Sample curriculum

The compulsory, compulsory-elective and optional modules of the MTDI can be grouped into module-specific and methodological areas, respectively. A separate model curriculum for each doctoral programme sets out the module titles, credit values, and lecturers, as well as the recommended placement of each module within the curriculum. The model curricula are set out

in Appendix 1, while detailed descriptions of the modules are contained in Appendix 2. The model curricula are drawn up and reviewed by the Programme Committee (PT) at least every two years, taking into account the specialisations of the doctoral programmes. Where necessary, amendments may be made to the model curriculum following approval by the Academic Council (TTT).

2.7 Distribution and recognition of credits required for the conferment of the doctoral degree

The unit of measurement for academic requirements is the credit. As a general rule, the recognition of one credit requires 30 hours of work on the part of the student (e.g. consultation, study, research, teaching, preparation, etc.). In doctoral programmes, a credit is a unit of measurement for the academic, research, and (where applicable) teaching work, or its equivalent, undertaken by a doctoral student to fulfil their obligations.

Academic activities

Academic activities: a minimum of 30 (MTDP)/34 credits (TTDP).

In the doctoral programme, the minimum number of teaching hours is 100. Compulsory and compulsory-choice modules form the core of the programme; compulsory modules are worth 10 credits per module. Compulsory-choice modules are worth 8 credits, while optional modules are worth 6 credits.

During the first two semesters of the doctoral programme, the number of compulsory academic (training) credits is 30 in the MTDP (according to the MTDP model curriculum, it is recommended to take 2 modules in the first semester and 1 module each in the second and third semesters), and 40 in the TTDP. The completion of credits, based on the examinations, essays, reports, etc., required for the course taken, is certified by the course coordinator listed in the electronic study system. Credits may only be recognised for courses graded on a five-point scale.

No credits may be recognised for language study in doctoral programmes.

Pursuant to Section 53(3a) of the Nftv., students preparing for doctoral study may enrol on MTDI courses as early as the final academic year of their master's programme. If admitted, the MTDI recognises the credits earned in this way as prior learning. Doctoral students may earn up to 6 elective credits through credit transfer or part-time study (auditing). The Chair of the Programme Committee decides on the acceptance of these credits.

Research activities

Research work:

For the MTDP, a minimum of 36 credits is required during the training and research phase (PC1, PC2, PC3, PC4 reports and the Final Research Report) + 52 credits during the research and dissertation phase (5 credits per semester awarded by the supervisor and 8 credits for the PC report).

During the research and dissertation phase (semesters 5–8), the supervisor awards 5 credits per semester; 8 credits can be obtained for the Progress Control report and 7 credits for publications (17 credits for publications in the final semester), based on the termly written research report. During the second four semesters-of the research and dissertation phase, students must achieve 90 credits.

The purpose of the written research report is for the doctoral student to:

- a) give an account of their performance during the semester and document their academic and research achievements;
- b) reflect on their development within the framework of the training competences (knowledge, attitude, research skills, autonomy and responsibility);
- c) receive feedback from their supervisor on their performance during the semester and the development of their competencies;
- d) set academic/research and personal development goals for the next semester;
- e) develop their research management skills.

Other research activities: For the MTDP, total research output is accounted for in the Progress Control and Research Work modules.

In the case of the TTDP, a total of 60 credits can be earned through research over 8 semesters. The number of credits per semester is determined by the supervisor based on the student's current activities. In the 8th semester, the student presents their research at the research centre (dissertation presentation), for which 12 credits may be recognised.

In the case of the MTDP programme, the doctoral student must submit a written report each semester on the completion of the activities planned in the research work plan (in the case of the MTDP, for PC reports in the form of a PowerPoint presentation, and for the MATE e-learning platform, presentation materials and/or a summary essay archived on the platform), which must include a concise, factual summary of the literature reviewed during the semester, the studies carried out and the research activities, the student's self-assessment, the supervisor's written feedback, and the student's study, research, publication and personal development plan for the following semester, approved by the supervisor, including the financial, material and human resource requirements necessary to fulfil the research plan and the resources available.

The written report shall also include all applications and supporting documents required for the recognition of academic, teaching and research credits completed during the semester, including a detailed summary of the student's publication activity (based on data recorded in the MTMT database).

Any significant deviation from the work plan must be reported to the Head of the MTDI. The Head of the DI approves the change in consultation with the Head of the DP.

The specific provisions relating to the cooperative doctoral programme are set out in Section 20 of the EDSZ.

Publication activity:

The assessment of publication output is based on publications appearing during the relevant period and registered in the Hungarian Repository of Scientific Works (hereinafter: MTMT). The classification of publications is guided by the journal lists of the Agricultural Sciences and Engineering Divisions of the Hungarian Academy of Sciences (hereinafter: MTA), as well as the rankings on scimagojr.com and the Web of Science.

In the case of multi-authored articles, the student is awarded credits in proportion to the number of co-authors, unless the student's co-author is solely their supervisor, in which case 100 per cent of the credit value specified in the table may be counted.

For international students, publications in their native language are considered equivalent to those in Hungarian.

For both DP programmes, a minimum of 20 credits is required for the training and research phase, and a minimum of 38 credits for the research and dissertation phase.

Calculation of publication credits

MTDP

Publications		<i>Publication points</i>
Journal articles	IF, D1, Q1, Q2 journal articles in a foreign language	15
	Peer-reviewed ⁽¹⁾ articles in a world language ^{(2) (3)}	10
	Peer-reviewed articles in Hungarian	5
	Other scientific articles in Hungarian	2
	Other academic articles in foreign languages	2
Conference proceedings	International ⁽⁴⁾ conference proceedings ⁽⁵⁾	5
	Proceedings in Hungarian ⁽¹³⁾	3
	International conference abstract	2
	Abstract in Hungarian	1
Electronic publications and databases ⁽⁶⁾	Published in a foreign language, peer-reviewed	3
	Published in Hungarian, peer-reviewed	2
Book, book chapter, editing	Foreign-language book (coursebook), chapter	6 (3)/sheet
	Book in Hungarian (coursebook), chapter	2 (1)/sheet
	Book editing, international	10
	Book editing, domestic	5
Patents ^{(7) (8)}	Patents (granted in Hungary)	2
	Patents (granted abroad)	4
References ⁽⁹⁾	In domestic publications	2
	In foreign publications	5
Technological development, technical design		2
Documented technical work		3
Software development		2

The credit value is calculated by dividing the publication points by the number of authors (excluding the supervisor and co-supervisor), multiplied by three during the training phase and by two during the degree-conferment phase.

TTDP

	Publications	Credit value
Journal articles	Journal articles with an impact factor	10
	Non-IF journal articles	4
	Other evaluable articles	2
Conference proceedings	Conference proceedings [Proceeding: full paper]	3
	Abstract	1
Electronic publications	Published in Hungarian, peer-reviewed	1
	Published in a foreign language, peer-reviewed	3
Book chapter, book, book extract, coursebooks	In a foreign language	5
	In Hungarian	3
Module-specific works	Award or purchase in an international design competition	8
	Award or commission from a domestic design competition	6
	Award or commission from other design competitions	3
	Land-use or town planning scheme or strategy	6
	Facility Plan A or B	6
	Facility Plan C	4
	Scientific documentation or management plan for an area under national or international protection	6
	Scientific documentation or management plan for an area under national protection	4

The credit value is the publication points divided by the number of authors (excluding the supervisor and co-supervisor)

Teaching activities

In the TTDP programme, a maximum of 2 credits may be earned per semester for teaching activities during the training and research phase. Teaching activities are certified by the course coordinator of the module taught.

In the case of the TTDP, the doctoral student's individual consultation activities relating to the nurturing of talent and the training of the next generation of academics amongst students enrolled in undergraduate or master's programmes (e.g. academic student societies or supervision of dissertations) or other professionally relevant activities that can be objectively

assessed, such as the assessment of dissertations or degree theses, mentoring, or other activities which, on the recommendation of the supervisor, may be counted towards the fulfilment of teaching credits. The credit value is determined on an individual basis, based on the time spent on consultation and preparation. As a general rule, 1 credit may be recognised for 30 hours of work.

Research activities

2.8 Requirements for the complex examination

The conditions for the complex examination are set out in Section 12/A of Government Decree No. 387/2012 (19 December) and are regulated by Section 24 of the EDSZ.

The complex examination is a form of assessment designed to comprehensively and overview-based test the knowledge acquired by doctoral students participating in the programme or applying as independent candidates in their respective fields of research.

The complex examination must be taken by the end of the fourth semester at the latest, thereby concluding the training and research phase. Students participating in the organised programme must register for the complex examination in writing via the NEPTUN Study System in accordance with the provisions set out in Section 24(1) of the EDSZ. Students who have completed at least 90 credits during the training and research phase of the doctoral programme (the first four semesters) may register for the complex examination.

A prerequisite for sitting the complex examination is the acquisition of all the study credits prescribed in this Study Plan.

The complex examination consists of two parts, in the following order:

- a) theoretical part: this assesses the candidate's theoretical knowledge, during which the candidate is examined on at least two modules and/or topics.

Complex examination modules/topics: two modules/topics related to the research area, approved by the Programme Committee for each PhD student based on the supervisors' recommendations (in the case of the TTDP, the compulsory modules for the complex examination are listed in Appendix 5).

- b) Dissertation section: the candidate reports on their academic progress. In the form of a presentation, the candidate demonstrates their knowledge of the relevant literature, reports on their research findings, outlines their research plan for the second stage of the doctoral programme, and sets out the timetable for completing the dissertation and publishing the results.

The organisation of the complex examination and the appointment of the members of the examination board are coordinated by the academic secretary of the Doctoral Programme.

Complex examination period: the second half of June – before the start of the following academic year, or in January (during the mid-term break). The doctoral student will be notified of the date of the complex examination by the programme secretary.

The doctoral student must submit their doctoral dissertation within three academic years of the complex examination, in accordance with Section 26 of the EDSZ.

In the case of students preparing independently, the provisions of Section 21 of the EDSZ shall apply.

2.9 Certificate of Completion

The Centre for Doctoral and Habilitation Studies shall issue a certificate of completion (absolutorium) to doctoral students who have obtained the required credits in the doctoral programme. To obtain the absolutorium, a total of 180 credits must be completed within the framework set out in the table below:

MTDP

Table 1

Types of activities	Number of credits to be earned	
	In semesters 1–4	Semesters 5–8
Academic activities	30	-
Research activities		
- Research work	36	52
Publications	20	38
Teaching	maximum: 4	-
Total number of credits to be earned:	90	90

TTDP

Table 2

Types of activities	Number of credits to be earned	
	In semesters 1–4	Semesters 5–8
Academic activities		-
Research activities		
- Research work	24	24
Other research activities	14	17
Publications	14	44
Teaching	maximum: 12	maximum: 3
Total number of credits to be earned:	90	90

In the case of the MTDP, the completion of credits is checked by the programme secretary and approved by the PT. Any excess credits may be carried over from semesters 1–4 to semesters 5–8, but no more than the specified maximum may be counted towards the total in the first four semesters. The student must submit an application for the award of a certificate of completion.

In the case of the TTDP, the distribution of the minimum 40 publication points to be achieved is set out in Table 3. The detailed rules for the scoring of publication performance are set out in Appendix 3.

Table 3: Thresholds for the PhD procedure

	Landscape Architecture	Landscape ecological modelling
Publications and their impact		
1.1. Publications in journals	at least 10	at least 20
1.2 In conference proceedings	at least 10	at least 10
1.3 Book, coursebook	at least 0	at least 0
1.4 References	at least 0	at least 0
1. Total	at least 20	at least 30
2. Module-specific works	at least 0	at least 0
3. External research sources	at least 0	at least 0
4. Training the next generation of scientists	at least 0	at least 0
5. Other academic activities	at least 0	at least 0
1– 5. Total	min. 40	min. 40

The Research Council (PT) verifies compliance with the publication requirements stipulated in Section 26 of the MTDI MSZ as a condition for the conferment of a doctoral degree during the degree conferment procedure:

- a) while verifying the publication record required for the award of the certificate of completion, following which it informs the doctoral candidate as to whether or not they have met the publication requirements for the conferment of the degree;
- b) upon submission of the dissertation.

If the initiation of the degree conferment procedure and the submission of the dissertation coincide, the Supervisory Committee shall assess compliance with both requirements together.

The minimum requirements and the scoring of publications serve as benchmarks for candidates to assess their publication record and determine when to initiate the doctoral degree conferment procedure; furthermore, they provide a guideline threshold for proposers, below which it is not recommended to initiate the doctoral degree conferment procedure.

The nominator (and, on the basis of the nomination, the Examination Board) verifies compliance with the minimum requirements using the list of publications retrieved from the submitted MTMT. If the minimum requirements are not met, the Examination Board will reject the application for the degree. When assessing publication activity, only the data appearing in the MTMT may be taken into account.

2.10 The degree conferment procedure

The process and conditions for the conferment of a doctoral degree are governed by Chapter **VII** of *the EDSZ, entitled ‘Conferment of a Degree’*.

The procedure for conferring a doctoral degree is governed by the MTDI Rules of Procedure. In accordance with Section 26 of the EDSZ, a doctoral dissertation may be submitted once the student has obtained the ‘absolutorium’ in an organised programme, fulfilled the language and publication requirements set by the MTDI, and successfully completed the preliminary disputation.

It is the supervisor’s responsibility to organise and publicise the preliminary disputation; the programme secretary and the academic secretary assist the supervisor in this. A minimum requirement is that at least five experts holding an academic degree and with expertise in the relevant field of study must participate in the preliminary disputation. An attendance register must be drawn up listing the participants, including their academic qualifications and places of employment. The candidate’s supervisor shall propose the opponents for the preliminary disputation to the head of the MTDI. One of the opponents must not be in an employment relationship with the University. The opponents must hold an academic qualification. If the supervisor and the head of the MTDI cannot reach a consensus on the choice of opponents, the PT shall decide on the persons to be invited. The preliminary disputation shall be chaired by a habilitated associate professor, college lecturer or university professor who is employed full-time by the University, is invited by the head of the relevant doctoral programme, and is an expert in the topic of the doctoral dissertation. The chair of the preliminary disputation must also be a member of the public defence committee.

Two bound copies of the dissertation, signed by the supervisor and the head of the MTDI, 10 copies of the abstract of the Hungarian-language dissertation, 10 copies of the English-language abstract, and one copy of the document issued by the University Library and Archives Directorate certifying the validity of the publications uploaded to the MTMT must be submitted to the Doctoral and Habilitation Centre. The candidate must also upload their publications, which serve as evidence of their independent academic work, to the MTMT. The list of publications must be included at the end of the doctoral dissertation booklets. Upon the announcement of the public defence, the dissertation and the dissertation booklet will be made publicly available on the websites www.doktori.hu and www.uni-mate.hu, as well as on the MTDI website (Appendix 6 of the EDSZ).

The dissertation may only be submitted for public defence if there are two favourable recommendations. If one of the reviewers’ recommendations is negative, the Chair of the University Doctoral and Habilitation Council (hereinafter: EDHT) shall invite a substitute opponent from the approved review committee (an internal substitute opponent in place of an internal opponent, or an external substitute opponent in place of an external opponent) to carry out the review. If both reviews, or the review by the third opponent, are also negative, a new doctoral dissertation must be prepared, which may only be submitted after at least one year has elapsed

The dissertation must be put forward for public defence within two months of the academic year following receipt of the two favourable reviews. The rules governing the date of the public defence of the dissertation are set out in Section 27(5) of the EDSZ. The dates of the disputation will be published on the websites of the MTDI, the University and the National Doctoral Council. A doctoral candidate whose mother tongue is Hungarian may defend their dissertation in Hungarian; however, at the supervisor's request and with the EDHT's permission, the disputation may also be conducted in English. If the dissertation has been written in a foreign language and the disputation is also conducted in a foreign language, the assessment must be prepared in that foreign language. The relevant rules are set out in Section 27(6) of the DSZ.

The EDHT decides on the conferment and classification of the doctoral (PhD) degree based on a proposal from the TTT, in accordance with the assessment committee's report and the PT's minutes. The doctoral degree conferment procedure concludes with the EDHT's decision; the conferment of the doctoral degree is set out in the EDHT's resolution. The degree conferment procedure is deemed successful if the examination committee has deemed the candidate's dissertation, their independent academic work and their performance at the disputation to be satisfactory. The rules governing the classification of the doctoral degree are set out in Section 27(11) of the EDSZ.

The language requirements for the conferment of the degree are set out in Section 17 of the EDSZ. If a doctoral candidate does not meet the entry-level language requirement in English, in the case of the TTDP, they must, prior to the commencement of the degree conferment procedure, present a state-recognised language examination in English at least at intermediate level, or a document deemed equivalent to such an examination.

Final provisions:

This Curriculum was adopted by the Senate of the Hungarian University of Agriculture and Life Sciences by Resolution No. 140/2026 (VIII.27.). It shall enter into force on the 8th day following its adoption.

Gödöllő, 2026. August 27

Dr Csaba Gyuricza
Rector, Chair of the Senate

Appendices:

- Appendix 1.a: Model Curriculum – Doctoral Programme in Engineering
- Appendix 1.b: Sample Curriculum – Landscape Architecture and Landscape Ecology Programme
- Appendix 2: Elective modules for the TTDP
- Appendix 3: Marks awarded for publications and creative works in the TTDP
- Appendix 4: Structure of the Research Proposal
- Appendix 5: Compulsory modules for the complex examination (TTDP)

APPENDIX

Appendix 1a
Sample Curriculum – Doctoral Programme in Engineering

Curriculum for the Doctoral Programme in Engineering Sciences							
Year 1		1st semester		Year 1		2 nd semester	
Module		Hours	credit	Module		Hours	credit
		semester				semester	
General Research Methodology		26	10	Elective module		26	6
Compulsory elective module		26	8	Literature review (2nd PC)		-	1
Teaching activities		26	2	Teaching activities		26	2
1. PC (Work Plan)			3	3. PC (Research progress)			3
Total:			23	Total:			23
Year 2		3rd semester		Year 2		4th semester	
Module		Hours	credits	Module		Hours	credit
		semester				semester	
Elective module		26	6	I. Final research report		-	8
Publication 3		-	8	Publication 4			12
4. PC (Research report)			10				
Total:			24	Total:			20
Modules:						30	
Teaching activities:						4	
Research work:						36	
Publications:						20	
Total credits in the first two years:						90	
Year 3		5th semester		Year 3		6th semester	
Research Project 5		5		Research Project 6		5	
5th PC		8		6th PC		8	
Publication 5		7		Publication 6		7	
Total:		20		Total:		20	
Year 4		7th semester		Year 4		8th semester	
Research Project 7		5		Research Project 8		5	

Training Plan

7th PC	8	8th PC (Second Final Research Report)	8
Publication 7	7	Publication 8	17
Total:	20	Total:	30
Total credits during the dissertation phase (in the second two years):			90
Total credits			180

Training and research phase: Semesters 1–4

Modules	Semester				Credits
Compulsory modules	I		III.	IV.	Minimum:
General Research Methodology	x				10
Compulsory elective modules (1 module compulsory)	I		III.	IV.	Minimum:
Research ethics	x				8
Theory and Practice of Technical Research	x				8
Modelling and Simulation	x				8
Elective modules (2 modules compulsory)	I	II.	III.	IV.	Minimum:
Experiment design			x		6
Measurement Techniques			x		6
Materials Science			x		6
Mechanical Analysis of Agricultural Machinery Structures			x		6
Classical mechanics			x		6
Off-road driving theory, vehicle dynamics			x		6
Differential Equations			x		6
Modules					Total: 30
Publications			8	12	Total: 20
Research work	3	15	10	8	Total: 36
Educational activities	2	2			Maximum: 4
Total:					90

Sample Curriculum – Doctoral Programme in Engineering

Research – Dissertation phase, semesters 5–8

Modules	Semester				Credits
	V.	VI	VII	VIII.	
Research	5	5	5	5	Total: 20
Publication	7	7	7	17	Total: 38
Progress Control	8	8	8	8	Total: 32
Total					90

Appendix 1b

Sample Curriculum – Landscape Architecture and Landscape Ecology Programme

Teaching unit	Activities within the module	Sem 1	Sem 2	Sem 3	Sem 4	Total for the first 4 semesters	Sem 5	Sem 6	Sem 7	Sem 8	Second 4 semesters total	Total
Modules	Module 1	10										10
	Module 2	6										6
	Module 3											
	Module 4		6									6
	Module 5			6								6
	Module 6				6							6
Total for modules:		16	6	6	6							34

Training Plan

Individual profession achievement (training beyond the curriculum)	Study trips at home and abroad, fieldwork, design workshops (30 hours = 1 credit) PLEASE SPECIFY THE LOCATIONS!				2		2	2				6
Research and publication activities	Independent research (independent research carried out under the supervision of a supervisor, which forms the basis of the dissertation; 30 hours = 1 credit) PLEASE SPECIFY RESEARCH INSTITUTIONS!	4	4	8	8		10	10	5			48
	Publication activity (based on the credits specified in the rules of procedure) PUBLICATIONS WITH PLANNED VENUE AND ISSUE NUMBER!		6	6	6		12	12	16	8		66
Teaching activities	Classroom practicals (2-hour practical session: 2 credits for the first session, 1 credit for a different group studying the same module) PLEASE SPECIFY THE	3	3	3	3							12

Training Plan

	COURSE TITLES!											
	Supervision of a dissertation, final-year project, competition entry or TDK project (during the semester in which the dissertation or TDK project is undertaken)						1	1	1	0		4
	dissertation report									10		10
II + III + IV total:		7	13	17	19		25	25	22	18		
Total (I + II + III + IV):		23	19	23	25		25	25	22	18	90	180

Appendix 2 List of modules for the MTDP

Courses in the Doctoral Programme in Engineering From 2026	
Course	Lecturer
Compulsory module (10 credits)	
General Research Methodology	Gábor Kalácska, DSc, professor
Compulsory elective modules (8 credits) You must choose one course	
Theory and Practice of Engineering Research	Rita Kiss, DSc, professor
Research Ethics	István Szabó, PhD, professor
Modelling and Simulation	István Farkas, DSc, professor
Elective modules (6 credits) You must choose two modules; either from this list or from modules offered by other doctoral schools	
Materials Science	Gábor Kalácska, DSc, professor
Mechanical Analysis of Agricultural Machinery	László Káta, PhD, associate professor
Classical Mechanics	István Keppler, PhD, professor
Off-road driving theory, vehicle dynamics	Péter Kiss, PhD, professor
Experimental design	István Oldal, PhD, associate professor
Measurement technology	Dr István Seres, associate professor
Differential Equations	László Székely, PhD, associate professor

Appendix 2 OPTIONAL MODULES FOR THE TTDP PROGRAMME

Course title	Course code	Lecturer(s)	Credits	Number of hours per week)	Autumn/ Spring
Applied Research Methodology	MATER082N	Éva Szabóné Erdélyi		2+0	S
Local Character and Globalisation in Landscape Architecture	TETTD257N	Albert Fekete		2+0	S
Garden and Landscape Architecture	TETTD263N	Eszter Bakay		2+0	A
Climate and Adaptation	KORTU238N	László Bozó		2+0	A/S
Environmental status assessment	KORTU239N	László Bozó		2+0	A/S

Training Plan

Environmental databases	MATER083N	Márta Gaál		2+0	S
Environmental Protection	TETTD258N	Ágnes Sallay		2+0	S
Heritage Conservation in Landscape Architecture	TETTD259N	Albert Fekete		2+0	S
Statistical Methods	MATER073N	Márta Ladányi		2+0	A
Landscape Architecture: Plant Use	TETTD260N	Krisztina Szabó		2+0	S
Urban Planning	TETTD266N	István Schneller		2+0	A
Geoinformatics in Landscape Planning	TETTD249N	László Kollányi		2+0	A
Urban green infrastructure	TETTD272N	Kinga M. Szilágyi		2+0	S

OPTIONAL COURSES TAUGHT IN ENGLISH (PhD courses in English):

Course (Module)	Neptun code (Neptun code)	Professor/ Lecturer (Lecturer)	Credits (Credits)	hours w/sem.	Semester Spring/Autumn (Spring/Autumn)
Geographical Information Systems	TETTD249N	László Kollányi	6	2/24	Spring
History of Landscape Architecture	TETTD267N	Anna Vivien Eplényi	6	2/24	Spring
Dilemmas of sustainability	TETTD251N	Ágnes Sallay	6	2/24	Autumn
Remote sensing	TETTD268N	Sándor Jombach	6	2/24	Spring
Contemporary Landscape Design	TETTD271N	Eszter Bakay (née Karlócai)	6	2/24	Spring
Urban Green Infrastructure	TETTD272N	Kinga Szilágyi	6	2/24	Spring
Sustainable landscape planning	TETTD269N	Zsombor Boromisza	6	2/24	Spring
Adaptation to Climate Change	KORTU238N	László Bozó	6	2/24	Spring/Autumn
Multivariate statistical methods	MATER075N	Márta Ladányi	6	2/24	Spring
Research in Planning and Design	DHKTT025N	Martin van den Toorn	6	2/24	Spring
Research methodology	MATER077N	Éva Erdélyi	6	2/24	Autumn

Appendix 3

POINTS AWARDED FOR PUBLICATIONS AND WORKS IN THE CASE OF THE TTDP

(the table below is intended for calculating marks; it should not be copied into the list of publications to be submitted)

1. Publications and their reception		Number	Weighting factor	Number * weighting factor
Journal articles	Indexed in Scopus (articles in journals with an Impact Factor or ranked Q1–Q4)		10	
	Non-IF journal articles in a foreign language listed by the Hungarian Academy of Sciences (MTA)		7	
	Non-IF, MTA-listed journal article in Hungarian		5	
	Other peer-reviewed scientific articles (excluding predatory journals) in a foreign language		5	
	Other peer-reviewed scientific articles (excluding predatory journals) in Hungarian		3	
Conference proceedings electronic	In Hungarian (full paper)		3	
	Abstract in Hungarian		1	
	International conference (full paper)		5	
	International conference abstract		2	
Book, book chapter,	Foreign-language book, coursebook, book chapter (per page started)	10 per sheet (1 sheet = 11 pages, max. 50 per book)		

	Hungarian-language book, coursebook, book chapter (per sheet started)	6 per sheet (1 sheet = 11 pages, max. 30 per book)		
	Book editing, international		10	
	Book editing, domestic		5	
References (not a self-citation)	In a domestic publication		0.5	
	In an international publication		1	

2. Module-specific works		Number	Weighting factor	Number* Weighting factor
Projects agricultural IT projects (software development)	Decision support system		8	
	Professional information system		5	
	Electronic Professional Database		5	
	Predictive or simulation system models		5	
Implemented or approved landscape architecture plans	Land-use plan			
	• as lead designer		6	
	• as a junior designer		4	
	Town planning scheme			
	• as lead designer		6	
	• as lead designer for the specialist supporting section		4	
	• as a junior designer for the specialist supporting section		3	
	Strategic plan and programme for regional and urban development			

Training Plan

	• as lead designer		4	
	• as a junior designer		2	
	Facility Plan 'A' (for areas larger than 2 ha, or for a protected area)			
	• as lead designer		6	
	• as a junior designer		4	
	Facility Plan 'B' (planning permission- level design documentation for sites larger than 2 ha or situated in a protected area)			
	• as lead designer		4	
	• as a junior designer		3	
	Facility Plan 'C' (planning documentation drawn up for an area of less than 2 ha or for a non-protected area, at least at the planning permission stage)			
	• as lead designer		2	
	• as a junior designer		1	
	Scientific documentation and/or management plan for an area under national or international protection (natural or cultural heritage)		4	
	Scientific documentation and/or management plan for an area under local (natural or cultural heritage) protection		2	
	Environmental impact assessment			
	• as lead designer		3	
	• as a junior designer		1	

2. Module-specific works		Number	Weighting factor	Number* Weighting factor
Results achieved in design competitions	Award won in an international design competition		6	
	Project commissioned following an international design competition		5	
	Award won in a domestic public design competition		4	
	Project commissioned following a national public design competition		3	
	Prize or purchase in other design competitions		2	
Professional awards	Foreign or international academic award		10	
	Awards conferred by the Hungarian Academy of Sciences (MTA) or a government body		10	
	An award presented by a Hungarian scientific society, chamber or professional association		6	
	A prize awarded by a domestic foundation or professional association		1	
	First Prize or Grand Prize at the OTDK		5	
	OTDK Second or Third Prize, or First Prize in the University TDK		3	
	Awards available to other university students		1	
3. External research funding				
Principal investigator on successful domestic scientific and R&D grants and research contracts			5	
Participant in successful domestic scientific and R&D grants and research commissions (not as principal investigator)			2	
Principal investigator on successful foreign or international scientific and R&D grants and research commissions			10	
Participant in successful foreign or international scientific and R&D grants and research commissions (not as principal investigator)			4	
International expert assignments			2	
4. Training the next generation of scientists				
Supervision of PhD or DLA theses	successfully defended theses		2	
	in progress		1	

Training Plan

Student Research Programme (TDK), dissertation/project, dissertation supervision, consultancy work	submitted theses		0.5	
	of which were awarded prizes		1	
5. Other academic activities				
Member of an academic committee or a national professional committee	officer		10	
	member		2	
Membership of the editorial board of a Hungarian journal			5	
Membership of editorial boards of international journals			10	
Organising committee for congresses and conferences	officer		5	
	member		2	
Officer of a domestic scientific society			2	
Officer of an international scientific society			5	
Patents	Patents (Mo)		2	
	Patents (foreign)		3	
	Patents (international)		6	

Only works that are accepted for publication, following peer review, by a publication with an editorial board established for the purpose of publishing and documenting original scientific findings (whether published in traditional or electronic form) shall be considered **scientific publications**. A journal may only be classified as a scientific or professional journal if it has an ISBN or ISSN number and an editorial board. **Definition of a scientific book:** A publication issued by a recognised publisher specialising in scientific books, a higher education institution or a scientific research centre of the Hungarian Academy of Sciences (MTA), bearing the names of the editor and authors, and bearing an ISBN number, with a total length exceeding 10 printed sheets (or 110 pages). A scholarly book may be a work produced using traditional printing methods or as an electronic book (e-book), provided it meets the above registration and scholarly requirements.

References to **regional development plans**, town and village development plans, and regional and local development strategies are made via the relevant approving legislation.

References to **‘A’ level facility plans** shall be made by citing the address and cadastral number of the site of implementation. References to **‘B’ and ‘C’ level facility plans**, as well as nature conservation and cultural heritage management plans, shall be made by citing the name of the authorising authority and the reference number of the authorisation document; furthermore, in the event of implementation, the address and cadastral number of the site of implementation shall also be cited.

References to **scientific documentation** shall be made using the public collection reference number.

References to results achieved in design competitions shall be made by citing the bibliographic details of the published announcement.

The list containing the publication points is approved by the PT on the recommendation of the academic secretary.

Appendix 3

POINTS AWARDED FOR PUBLICATIONS AND ACADEMIC ACTIVITIES IN THE CASE OF THE MTD

1. Publications and their impact		Number	publication points	Number x publication points
Journal articles	IF, D1, Q1, Q2 journal articles		15	
	Peer-reviewed ⁽¹⁾ articles in a world language ^{(2) (3)}		10	
	Peer-reviewed articles in Hungarian		5	
	Other scientific articles in Hungarian		2	
	Other academic articles in foreign languages		2	
Conference proceedings	International ⁽⁴⁾ conference proceedings ⁽⁵⁾		5	
	Proceedings in Hungarian ⁽¹³⁾		3	
	International conference abstract		2	
	Abstract in Hungarian		1	
Electronic publications and databases ⁽⁶⁾	Published in a foreign language, peer-reviewed		3	
	Published in Hungarian, peer-reviewed		2	
Book, - chapter, editing	Foreign-language book (coursebook), chapter		6 (3)/sheet ⁽¹⁴⁾	
	Hungarian-language book (coursebook), chapter		2 (1)/sheet ⁽¹⁴⁾	
	Book editing, international		10	
	Book editing, domestic		5	
Patents ^{(7) (8)}	Patents (granted in Hungary)		2	
	Patents (granted abroad)		4	
References ⁽⁹⁾	In domestic publications		2	
	In foreign publications		5	
1. Total publications:				
2. Module-specific works ^{(10) (11)}				
Technological development, technical design			2	
Documented technical work			3	
Software development			2	
2. Total number of works:				
3. External research funding				
Principal investigator on domestic scientific and R&D grants			3	
contributor			1	
Principal investigator on international scientific and R&D grants			5	
contributor			1	
Principal investigator on other successful international research grants			2	
Principal investigator on other successful domestic research grants			1	
International expert assignments			2	

3. Total funding secured:			
4. Training the next generation of scientists			
Head of the Doctoral (PhD, DLA) Programme		5	
Officer		3	
Research group leader		4	
PhD or DLA supervision: successfully defended		3	
in progress		1	
PhD dissertation assessment		1	
Supervision of student research projects: theses submitted		0.5	
of which received an award		1	
4. Training and mentoring – total:			
5. Other academic activities			
Member of a national professional body or an MTA committee		10	
Member		2	
Member of the editorial board of a domestic journal		5	
Member of the editorial boards of foreign journals		10	
Member of the organising committee of a congress or conference		5	
Member		2	
Member of a national scientific society		2	
Member of a foreign scientific society		5	
Review of a doctoral dissertation for the Hungarian Academy of Sciences		1	
5. Total for other academic activities:			
Total points for publications and academic activities (1+2+3+4+5):			

Comments:

The starting point for the evaluation is the assessment of academic standing carried out by the relevant MTA Department (scientific committee) as part of the procedure for conferring the DSc degree, which is based on the SCI-based publication impact factor and, as an objective metric, ensures an internationally comparable evaluation. Furthermore, when designing the evaluation system, we endeavoured to develop a measurement method compatible with other scientific disciplines.

- (1) A peer-reviewed journal has an editorial board. It has an abstract in English. The article has at least one reviewer who provides a written opinion.
- (2) *English, German, French, Russian, Spanish and Italian* are considered world languages.
- (3) An article published in a world language, peer-reviewed and featured in the Bulletin, may also be classified as such.
- (4) The official language of an international conference is a world language, where at least one-third of the speakers are from abroad.
- (5) Proceedings: the full text of a conference presentation or poster
The conference proceedings and other eligible publications have been published in a publication with an ISBN or ISSN number. A one-page abstract does not count as a conference publication.
- (6) For an electronic publication to be accepted, it must have been reviewed by an editorial board, peer-reviewed, published by a publisher, and indexed, and must include keywords to facilitate retrieval.

- (7) A patent may be included from the date on which it is published or its exploitation begins. An exploited patent receives additional points, the amount of which should be proportional to the number of citations.
- (8) In the case of patents, the weighting factor must be taken into account based on the inventors' respective shares. The allocation of the weighting factor amongst co-authors also applies to discipline-specific works (technological development, technical invention, pharmacological testing method, adaptation of new diagnostics, new therapeutic procedure, innovation in teaching methodology, scientific and educational films, educational CDs, software development).
- (9) Of the references, only those published in print may be taken into account; references cited in a dissertation cannot be counted as valid references. Self-citations and citations of co-authors do not count.
- (10) When listing discipline-specific scientific works (e.g. technical works or processes), it is necessary to indicate their economic and/or social utility, as well as their prevalence both domestically and abroad. Discipline-specific works that have been utilised will receive additional points, the amount of which should be proportional to the number of citations.
- (11) Expert opinions do not count as academic activity. Among the successful applications, those involving OM patronage and non-academic applications cannot be accepted.
- (12) ***In the case of articles with two or more authors, each author's contribution may be assessed by dividing the publication's score by the number of authors. In the case of PhD students, where the supervisor is listed as an author, the supervisor need not be included in the calculation.***
- (13) This also includes material published in Hungarian at an international conference.

Appendix 4

Structure of the research plan (MTDP)

For the MTDP, the template (MA_MTDP_35_01 Research Work Plan for Applications) can be downloaded from the link below:

<https://doktori.uni-mate.hu/muszaki-tudomanyok-doktori-iskola/letoltheto-dokumentumok>

Structure of the research plan (TTDP)

RESEARCH WORK PLAN

Supervisor:

Applicant's name:

Title of the research topic:

1. Scientific background

1.1 Relevance and significance of the topic

1.2 The literature review and theoretical framework of the research

2. Objectives

2.1

2.2

3. Methods

3.1

3.2

4. Expected results

4.1

4.2

When drawing up the research work plan, please take the following points into account:

The work plan must be between 5 and 7 pages in length (font size 12, single-spaced) and must contain information that enables the relevant Doctoral School and the appointed examiners to assess, in substance, the topicality of the topic, the feasibility of the proposed tasks, the selected research and evaluation methods, and the expectations regarding the expected results.

Date

.....

Applicant

.....

Supervisor

Appendix 5

COMPULSORY MODULES OF THE COMPLEX EXAMINATION (TTDP)

I. Landscape Architecture

- Garden and outdoor space architecture
- Conservation of Historic Gardens
- History of Gardens
- Environmental Protection
- Landscape ecology
- Landscape planning
- Landscape conservation and rehabilitation
- Urban planning
- Regional development
- Green space systems

II. Ecological modelling:

- Information systems, databases
- Geoinformatics
- Experimental design and data analysis
- Multivariate statistical methods
- Risk analysis
- Ecological modelling
- Climate and adaptation