ÓBUDAI EGYETEM
OBUDA UNIVERSITY

OBUDA UNIVERSITY

DOCTORAL SCHOOL OF INNOVATION MANAGEMENT (IMDI)

TRAINING PLAN

Approved by: EDHT Decision No.

BUDAPEST

1 April 2026.

Tartalom

1 PREAMBULUM

Relevant laws and EDHA references, abbreviations:

1) Act CCIV of 2011 on National Higher Education (NFTV)
2) The Doctoral and Habilitation Regulations of Óbuda University (EDHSZ)
3) Study and Examination Regulations of Óbuda University (TVSZ)
4) The University of Óbuda's Employment Requirements Framework (ERF)
5) The Intellectual Property Management Regulations of Óbuda University (IPMR)
6) Rules of Procedure of the Doctoral School of Innovation Management
7) Government Decree No. 387/2012 (XII. 19.) on doctoral schools, the order of doctoral procedures and habilitation
8) 1229/2012 (VII.6.) Government Decree on the tasks related to the introduction of the Hungarian Qualifications Framework and on the establishment and introduction of the National Qualifications Framework, pursuant to Government Decision No.1004/2011 (I. 14.) m
9) Standard Classification of Occupations (FEOR-08)
10) The MAB's accreditation requirements and professional evaluation criteria (ABSZ) in the assessment of the establishment and operation of doctoral schools
11) MAB Decision 2014/4/IV (amendment of Decision 2013/6/III/1)

2. GENERAL DATA

Name and address of the institution: Óbuda University (address: 1034 Budapest, Bécsi út 96/b)

Name of the doctoral school: Innovation Management Doctoral School

Short name of the doctoral school: IMDI

Host faculty: Keleti Károly Faculty of Economics

Field of science: social sciences

Field: management and organisation sciences

Type of training: doctoral (PhD)

Title of the degree awarded

in Hungarian: PhD, Gazdálkodás- és szervezéstudományok

in English: PhD, Business and Management

Training objective preparing professionals who promote the market launch and market success of innovations to obtain an academic degree, developing research, presentation and teaching skills

Duration: 8 semesters

Form of training: full-time and correspondence courses, as well as individual training

Funding: Hungarian state or other scholarships, self-financed, "Cooperative Doctoral Training"

Admission requirements: a Master's degree (MA/MSc) at least with good grade or an equivalent degree, advanced proficiency in English, submission of a research proposal, and a successful entrance exam (demonstration of professional competence through evaluation of prior academic activities—e.g., student research, conference presentations, publications). A maximum of 100 points can be earned during the admission process, and a minimum of 60 points must be obtained to be admitted.

Training language: hungarian and english

Credit modules: study credits, research credits (including publication credits), teaching credits.

The Student Administration Process: as a general rule, the academic administrator of the doctoral school is responsible for the administration of student affairs and the provision of information on training.

Request submission: Requests for the recognition of publication credits and student petitions requiring a decision by the Doctoral School Council (DIT) must be submitted to the academic administrator, addressed to the secretary of the doctoral school, with the supervisor's approval.

Completion of the course: diploma, number of credits required: 240

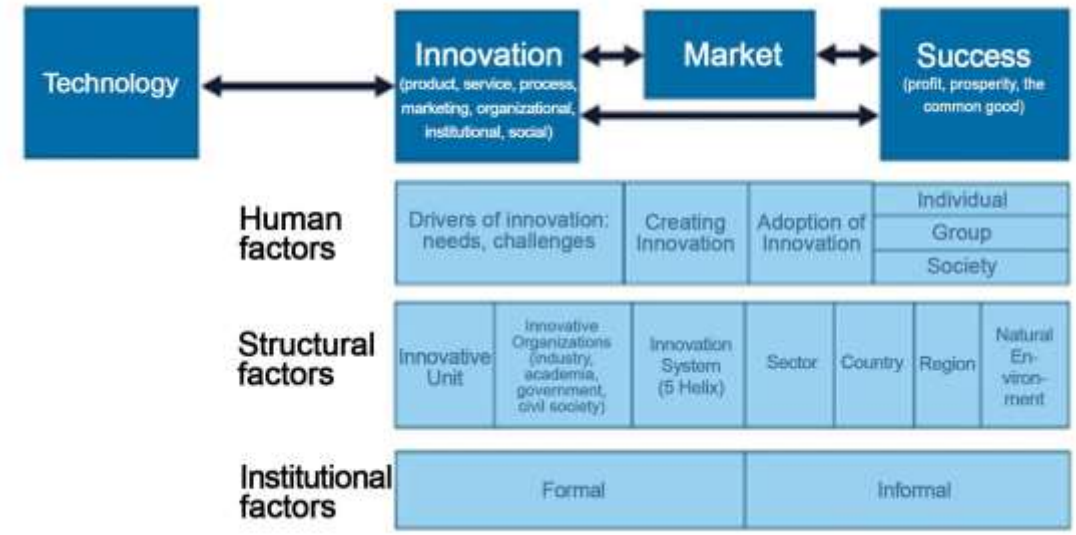
The doctoral school's educational programs: The doctoral school ensures specialization through required courses and research topics.

Classification of courses: The courses offered are grouped into professional and methodological knowledge.

3. INTRODUCTION TO DOCTORAL TRAINING

3.1 THE CONCEPTUAL FRAMEWORK FOR DOCTORAL TRAINING

IMDI conducts teaching and research on the structural, institutional, and human factors influencing the market entry and success of innovations through theoretical and methodological approaches in the social sciences, specifically in the fields of management and organizational studies.



3.2 INPUT CRITERIA FOR DOCTORAL TRAINING

The IMDI accepts applicants who hold a master's degree or equivalent qualification in any field of study, with a focus on management, with a focus on innovation theory and business/social innovation, in the field of management and organizational sciences, offering the opportunity to earn a doctoral (PhD) degree corresponding to the highest, Level 8, of the Hungarian Qualifications Framework. The admission requirements and the admission procedure are outlined in Section 3.1 of the IMDI's operating regulations. The IMDI enables both those participating in higher education doctoral training and individuals pursuing careers in the industrial, public, or civil sectors to earn a doctoral degree.

For applicants who do not hold a master's degree in the field of management and organizational sciences (e.g., those with degrees in medicine and health sciences, agriculture, engineering, electrical engineering, etc.), the DIT will review the relevance of their prior studies, professional and managerial experience, and research activities—as evidenced by appropriate documentation—to the field of management and organizational sciences, and may require the completion of bridging courses to establish the knowledge necessary for doctoral studies in management and organizational sciences. With the consent of the thesis advisor, the doctoral student may select the bridging courses from among the doctoral school's required and elective courses (see Section 3.7), as well as from the required or mandatory elective courses taught in

the full-time or part-time tracks of the KGK Master's programs in Business Development or Marketing, for a total of up to 20 credits, which do not count toward the credit requirement for obtaining the certificate of completion.

3.3 THE LEARNING OUTCOMES OF THE IMDI PROGRAM

In accordance with the objectives of the IMDI and Level 8 of the Hungarian Qualifications Framework (MKKR)—as set forth in Government Decree 229/2012 (VII.6.) – the competencies of professionals who have earned a doctoral degree in the IMDI program in the field of management and organizational sciences, with regard to management and business/social innovation that lay the foundation for bringing innovations to market and ensuring their market success, are as follows. The aim of the program is to train researchers capable of producing new scientific results in the field of business and organizational sciences.

3.3.1. Knowledge

Possesses research-level knowledge of the main areas, interdisciplinary fields, established and debated relationships, conceptual framework, and terminology of the field of business and organizational sciences.
Possesses the research methodology skills necessary for the independent investigation of applied and theoretical research questions in the fields of management and business/social innovation that underpin the market launch and market success of innovations.

3.3.2. Skills

Is capable of creatively analyzing practical and theoretical issues in management and business/social innovation that underpin the market launch and market success of innovations; of conducting comparative and critical evaluations; and of formulating and communicating new connections relevant from individual, economic, and social perspectives.
Is capable of the practical application and further development of management and business/social innovation methods that underpin the market launch and market success of innovations; the practical implementation of new theories; the identification of unforeseen professional problems; and the exploration of the theoretical and practical background necessary for their research and resolution.
Is capable of planning, implementing, and conducting independent research on management and business/social innovation projects that lay the foundation for bringing innovations to market and ensuring their market success, as well as developing new techniques and approaches.

3.3.3. Attitudes

Possesses the curiosity and learning ability necessary to identify and solve research problems—currently opaque and unpredictable—in the broader fields of management and organizational

sciences, particularly those related to management and business/social innovation that underpin the market launch and success of innovations.
They carry out their work with perseverance, a strong professional commitment, and a search for new paths.
They represent, develop, and communicate the individual and community attitudes, values, and behaviors that underpin the market launch and market success of innovations.

3.3.4. Autonomy and Responsibility

With creative independence, they build and initiate new fields of knowledge and propose new practical solutions.
Through high-level cooperation with industrial, academic, government, and civil society actors in the innovation ecosystem, they take a leading role in formulating and solving theoretical and practical issues.
They are capable of engaging as an equal and a discussion partner with actors in the innovation ecosystem and experts in the field.
They take responsibility for the management that underpins the market launch and success of innovations, as well as for raising and addressing new ethical questions related to business and social innovation.

3.4 STRUCTURE OF THE DOCTORAL PROGRAM

3.4.1. Language of the doctoral program

The doctoral program is conducted in Hungarian and English.

3.4.2. Forms of organized doctoral training

Based on the provisions of the Óbuda University Doctoral and Habilitation Regulations (EDHSZ) regarding the organized forms of doctoral training, IMDI offers organized doctoral training in the following forms:

- state-funded, full-time, day-time organized training,
- self-funded, full-time, on-campus organized training,
- self-funded, part-time, correspondence-based organized training,
- "Cooperative Doctoral Training" supported by the state with an additional scholarship (the relevant specific rules and the rules of the former Cooperative Doctoral Program can be found in Annex D4/B of the EDHSZ),
- self-funded doctoral training for research excellence (the specific rules regarding this can be found in Appendix D4/C of the EDHSZ).
- in the form of individual preparation.

Based on the EDHSZ and relevant legislation, the IMDI's organized doctoral program lasts 8 semesters, during which the student must earn 240 credit points.

3.4.3. Stages of the organized doctoral program

The doctoral program consists of two stages: the first four semesters comprise the "training and research" stage, while semesters 5–8 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 beginning the research and dissertation phase, students must pass a comprehensive exam (see EDHSZ §§ 18–19), which assesses and evaluates academic and research progress. During the first semester of the organized training, the student must prepare a Work Plan under the supervision of the thesis advisor in accordance with Section 3.2 and Annex 4 of the IMDI Operating Regulations.

3.4.4. Individual Degree Program

In the individual degree program, the student prepares individually to draft and defend the thesis. Applications for individual degree conferral may be submitted to the head of the IMDI in accordance with the requirements of Section 15 of the EDHSZ, provided that the applicant:

a) holds a master's degree or an equivalent qualification (EDHSZ Section 15);

b) has met the language requirements for admission (EDHSZ Section 15(6)b);

c) has earned 20 credits through publications listed in the MTMT that have appeared in peer-reviewed journals in the field of management and organizational sciences.

Passing the comprehensive exam is a prerequisite for individual degree conferral. Individual candidates are not required to earn academic credits, but may request a thesis advisor (EDHSZ §21). Upon submission of the application for admission, they must present at least one published or accepted-for-publication work out of the minimum of five publications required as an output requirement. The application and other requirements for obtaining a doctoral degree are the same as for the organized program. During the individual degree program, 240 credit points must be earned to qualify for the final examination, of which 120 credits will be awarded through the comprehensive exam; the remaining credits must be earned during the course of the degree program.

3.4.5. Requirements for Obtaining a Doctoral Degree

- The requirements for obtaining a doctoral degree, pursuant to Section 18 of the EDHSZ, are as follows:
- Passing the comprehensive examination
- Obtaining the absolutorium
- Fulfillment of language requirements
- Fulfillment of publication requirements
- Doctoral dissertation (presentation of an independent solution to a scientific or innovative problem)
- Summary of the theses (independent scientific results) of the doctoral dissertation in a thesis booklet and their defense in a public defense

3.5 THE IMDI CREDIT SYSTEM

As a general rule, earning one credit requires 30 hours of work on the part of the student (e.g., consultations, studying, research, teaching, preparation, etc.). The general regulations regarding credits that can be earned in doctoral programs are set forth in the Óbuda University Doctoral Credit Regulations (Appendix D2 of the University Doctoral and Habilitation Regulations).

In organized programs, starting from the second semester, registration is conditional upon the completion of the required total number of credits, as well as the research credits obtainable through the semester report.

3.5.1. Credits to be earned during the training and research phase

Credit type		Semester				Total
		1	2	3	4	
Study (training)	**Total**					**32-57**
	Required					*24*
	Compulsory elective					*8*
	elective					*0-25*
Research	**Total**	**≥ 10**	**≥ 10**	**≥ 10**	**≥ 10**	**≥ 50**
	Half-yearly report	*8*	*8*	*8*	*8*	*32*
	Research project	*0/6-10*	*0/6-10*	*0/6-10*	*0/6-10*	*0-40*
	Publication					*≥ 10*
Education	**Total**	**0-5**	**0-5**	**0-5**	**0-5**	**0-20**
The condition for registration		**-**	**20**	**45**	**75**	

In the organized program, a student may apply for the comprehensive examination if they have earned at least 90 credit points during the training and research phase, have met the language requirements for the doctoral degree, and have also completed publication activities worth at least 10 credits.

3.5.2. Credits to be earned during the research and dissertation phase

Credit type		Semester				Total
		5	6	7	8	
Research	**Total**	**≥ 10**	**≥ 10**	**≥ 10**	**≥ 10**	**≥ 105**
	Half-yearly report	*15*	*15*	*15*	*15*	*60*
	Research project	*0/6-10*	*0/6-10*	*0/6-10*	*0/6-10*	*0-40*
	Publication					*≥ 65*
Education	**Total**	**0-10**	**0-10**	**0-10**	**0-10**	**0-40**
The condition for registration		**90**	**110**	**150**	**180**	

A prerequisite for obtaining the certificate of completion is that the student earns 240 credit points over the course of 8 semesters (EDHSZ §16). The EDHSZ D2) credit regulations specify both the minimum and maximum credit requirements: Academic courses: max. 57 credits, Teaching: max. 60 credits, Research / dissertation / reports: the remaining credits.

3.5.3. Academic credits

Compulsory and required elective courses form the main profile of the program; they are worth 8 credits per course. Elective courses are worth 5 credits. Students must earn 32 credits (100%) from equivalent courses among the 32 academic credits available through required and required elective courses; in addition, they may earn a maximum of 25 credits through elective courses, which may be achieved through credit transfer, partial enrollment (auditing), or prior completion. Academic credits are certified by the IMDI academic administrator based on applications submitted by the student (Appendix 4).

Based on the doctoral student's application, the DIT may accept formal or non-formal workplace training that aligns with the conceptual framework of the IMDI program as prior coursework. The application must be submitted to the IMDI secretary with the supervisor's approval. The application must be accompanied by a certificate of completion of the training and the training documentation, based on which the duration of the work performed, the professional content of the training, and the level of output competence can be determined. The DIT may accept 1 academic credit for every 30 hours of study as prior academic achievement if the professional content of the training falls under the field of management and organizational sciences and its competency level meets the requirements of the doctoral program.

Pursuant to Section 53(3a) of the NFTV, students preparing for doctoral studies may enroll in IMDI courses as early as the final academic year of their master's program. Upon successful admission, the IMDI recognizes credits earned in this manner as prior academic achievement.

3.5.4. Research Credits

At least 135 research credits must be completed during the program. Of these, 92 credits can be earned through mandatory semester reports. An accepted semester report is worth 8 or 15 credits. The procedure and requirements for the semester report are described in Section 3.8.

For other research work (research projects) conducted outside the thesis topic, 6–10 credits may be awarded per semester, up to a maximum of 40 credits over the 8 semesters, based on the recommendation and written confirmation of the thesis advisor and the research supervisor. Students may earn credits for research projects through partial coursework (auditing) or prior completion, in accordance with the provisions of Appendix D2 of the EDHSZ. The form required to certify research projects is available in Appendix 5.
Based on the doctoral student's application, the DIT may accept the doctoral student's participation in research and development work at their workplace, or their activities related to innovation management or business/social innovation, as prior completion. The application must be submitted to the IMDI secretary with the supervisor's approval. The application must be accompanied by a certificate from the employer, which verifies the duration, professional content, and level of responsibility of the work performed. For workplace experience involving at least 20 hours of employment per week, 8 credits may be counted per semester of prior work experience for positions corresponding to FEOR-08 Group 1, 2 credits for positions corresponding to Group 2, and 2 credits for positions corresponding to Group 3.
Credits for publications are part of the research credits. The system for calculating publication credits is described in Appendix 1. A minimum of 75 publication credits must be earned during the program, of which at least 10 publication credits are expected to be earned during the training and research phase. The evaluation of publication performance is based on the student's data recorded in the Hungarian Scientific Works Repository (MTMT). Publication credits are certified by the IMDI secretary (Appendix 6).

3.5.5. Teaching Credits

It is not a requirement for obtaining the intermediate certificate or the degree that the doctoral student engage in teaching activities; the IMDI does not prescribe a minimum expected performance regarding teaching credits. A maximum of 5 credits per semester (up to a total of 20) may be earned through teaching activities during the training and research phase, and a maximum of 10 credits per semester (up to a total of 40) during the research and dissertation phase; however, a maximum of 60 credits may be counted toward the entire program.
For a course or seminar lasting an entire semester, 1 credit may be awarded for a weekly teaching load of 1 class hour (or equivalent), taking preparation time into account; for courses requiring significant theoretical preparation (e.g., curriculum development, updating), 2 credits may be awarded. For delivering unique theoretical lectures that enrich the curriculum and require significant (~15 hours) preparation on the part of the doctoral student, 0.5 credits may be awarded per session (at least 45 minutes). Teaching activities are jointly certified by the head of the organizational unit responsible for education and the course coordinator.

Individual consultation activities related to the talent development and training of the next generation of scholars among doctoral students enrolled in bachelor's or master's programs (e.g., academic student circles or thesis supervision) may be counted toward the fulfillment of teaching credits based on the supervisor's recommendation. The credit value is determined

individually based on the time spent on consultation and preparation. The basic principle is that 1 credit may be awarded for 30 hours of work (15 hours of consultation + 15 hours of preparation) (Appendix 7).
In accordance with the provisions of Appendix D2 of the EDHSZ, the student may fulfill educational credits through part-time study (auditing) or prior completion. Based on the doctoral student's application, the DIT may accept teaching activities conducted within the framework of formal or informal training organized by a higher education institution or other employer as prior completion, provided that the professional content of the training fits within the conceptual framework of the IMDI program, falls under the category of management and organizational sciences, and the level of competence meets the expectations of higher education training. The request must be submitted to the IMDI secretary with the approval of the supervisor. The application must be accompanied by a certificate of teaching activity and course documentation, which can be used to determine the duration of work performed, the professional content of the course, and the level of competencies achieved. The DIT may accept 1 academic credit for every 30 hours of work as prior academic achievement.

3.6 THE DOCTORAL SCHOOL CURRICULUM

During the training and research phase, students must complete one required course each semester. One of the required courses may be selected based on the student's research topic (mandatory elective). In addition, students may take elective courses up to the maximum credit limit.

Subject	Credit / semester			
	1	2	3	4
Compulsory subject	8	8	8	
Compulsory subject				8
Optional subject	0-25			

3.7 COURSES OF THE DOCTORAL SCHOOL

The doctoral school's required, mandatory elective, and elective courses can be grouped into subject-specific and methodological categories. Courses are announced in the Neptun system, which is managed by the DI administrator. As a general rule regarding the announcement of courses, the DI stipulates that required and required-elective courses are announced once per academic year, ensuring that students can enroll in one required or required-elective course per semester and that they can complete the three required and one required elective course during the training and research period. Elective courses are offered in both the fall and spring

semesters; a course will be offered if at least three students enroll; if fewer students enroll, the course may be completed in the form of individual consultations.

The DI curriculum aims to provide flexibility for doctoral students, recognizing that applicants to the DI come from a wide range of backgrounds and have unique needs. The placement of individual courses within the curriculum may vary during the academic year, and no prerequisites have been specified.

Compulsory subjects

Subject / semester		Credit	Responsible (instructor)
Specialized knowledge	Innovation theories, innovation management and innovation policy	8	Dr. habil. Zrubka Zsombor, Dr. habil. Szabó István
	Economic and management theories	8	Prof. Dr. Karácsony Péter, Prof. Dr. Garai-Fodor Mónika
Methodologic knowledge	Research methodology and scientific writing	8	Prof. Dr. Péntek Márta Prof. Dr. Gulácsi László

Compulsory elective subjects

Tantárgy (second year spring semmester)		Credit	Responsible (instructor)
Specialist knowledge	Project Management in an Agile Environment	8	Prof. Dr. Csiszárik-Kocsir Ágnes
	Innovative Financial Solutions	8	Prof. Dr. Csiszárik-Kocsir Ágnes
	Change Management and Organizational Culture	8	Dr. habil. Varga János
	Economic theories and models: innovation and management	8	Prof. Dr. Fogarasi József
	Management of innovations in healthcare	8	Prof. Dr. Gulácsi László Dr. habil. Zrubka Zsombor Prof. Dr. Péntek Márta
	Innovation management in agriculture	8	Prof. Dr. Garai-Fodor Mónika
Methodologic knowledge	Testing statistical hypotheses for innovative development in the healthcare industry	8	Prof. Dr. Takács Márta

	Methods and practice of marketing research	8	Prof. Dr. Garai-Fodor Mónika
	Biostatistics	8	Dr. habil Zrubka Zsombor, Prof. Dr. Ferenci Tamás

Elective subjects - specialised knowledge

Subject	Credit	Responsible
Marketing Strategy in Organizational and Consumer Markets	5	Prof. Dr. Garai-Fodor Mónika
Health Technology Assessment, Evaluation of Innovative Healthcare Products and Services	5	Prof. Dr. Gulácsi László
Cost accounting in healthcare, financing of healthcare products and services	5	Prof. Dr. Gulácsi László
The human side of innovation	5	Prof. Dr. Karácsony Péter
Clinical evaluation of innovative healthcare technologies: measuring and evaluating health benefits	5	Prof. Dr. Péntek Márta
Innovation theory and management in the healthcare industry	5	Dr. habil. Zrubka Zsombor Prof. Dr. Haidegger Tamás
Agricultural and food marketing	5	Dr. habil. Szigeti Orsolya
Innovative organizational development and leadership	5	Dr. habil. Berke Szilárd

Elective subjects - Methodological knowledge

Subject	Credit	Responsible
Numerical Modeling and Optimization of Industrial Processes in an Innovation Environment	5	Prof. Dr. Felde Imre
Modern Methods for Estimating Efficiency and Productivity	5	Prof. Dr. Fogarasi József
Advanced Econometrics I	5	Dr. Bakucs Zoltán, PhD
Econometrics for Advanced Students II.	5	Dr. Bakucs Zoltán, PhD
Synthesis of scientific evidence: systematic literature review and evaluation	5	Prof. Dr. Péntek Márta Prof. Dr. Gulácsi László
Quantitative synthesis of health science evidence, meta-analysis	5	Dr. habil Zrubka Zsombor
Health economics decision-making modeling	5	Dr. habil Zrubka Zsombor
Applied Python Programming	5	Dr. Kertész Gábor, PhD
Applied Artificial Intelligence	5	Dr. Kertész Gábor, PhD
Research Publication Skills	5	Prof. Dr. Gulácsi László Dr. Berek László
Modeling Innovation Processes with Soft Computing Methods	5	Prof. Dr. Takács Márta
The Impact of Risk Management on Farm Productivity	5	Prof. Dr. Fogarasi József
Risk Assessment and Testing of Medical Devices	5	Prof. Dr. Kozlovszky Miklós
Development of Innovative Medical Device Prototypes in Practice	5	Prof. Dr. Kozlovszky Miklós

3.8 SEMESTER REPORTS

The IMDI requires participants in the organized training program to submit a semester report each semester, which is evaluated by an assessment committee appointed by the DIT—composed primarily of DIT members—using a two-tier pass/fail grading system. The mid-semester report consists of a written and an oral component.

3.8.1. Purpose of the mid-semester reports

For the doctoral student to:

a) provide an account of their performance during the semester, ensuring that completed academic, research, and teaching credits, as well as research, publication, and other relevant achievements, are documented, on the basis of which the evaluation committee assesses whether the student's performance meets the expectations of the IMDI program;
b) reflect on their development within the framework of training competencies (knowledge, attitude, research skills, autonomy, and responsibility);
c) receive feedback from their supervisor on their performance and the development of their competencies during the semester;
d) set academic/research and personal development goals for the next semester;
e) develop their presentation and research management skills;
f) and provide the IMDI leadership with written feedback on the effectiveness and quality of the training. Any significant deviation from the work plan must be reported to the head of IMDI in accordance with Section 3.3 (Article 10) of the Operating Regulations.

3.8.2. Written Component

The written report shall contain a concise, factual summary of the literature reviewed during the semester, the studies conducted, 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, as approved by the supervisor, including the financial, material, and human resource requirements necessary to fulfill the research plan and the available resources.

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

The written report must be prepared in the language of instruction, following the template provided in Appendix 6, and submitted by the deadline specified at registration, at least 5 working days prior to the oral component.

3.8.3. Oral Component

In a 10-minute individual presentation delivered in the language of instruction, the student reports to the evaluation committee during a seminar or conference on:

a) progress made in their research topic during the semester;
b) research activities planned for the next semester;
c) publication activities planned for the next semester;
d) their individual development goals for the next semester.

Following the report, the supervisor provides oral feedback on the doctoral student's performance and progress; the evaluation committee may ask questions regarding the content of the written and oral reports and may request additional documentation to verify performance. Within three working days following the oral presentation, the evaluation committee (conditionally, in the event of missing information) makes a recommendation regarding the number of credits earned during the semester (including the research credit that must be completed with the semester report, see Section 3.5.4), and sends written minutes of this decision to the student and the DIT.
The student must submit the supplementary work to the IMDI academic administrator by the last day of the exam period. The DIT decides on the acceptance of the semester report after the conclusion of the exam period. The student may appeal the decision to the DIT in accordance with the provisions of Sections 12–15 of the TVSZ.

3.9 COMPREHENSIVE EXAM

A prerequisite for beginning the research and dissertation phase is that the student pass the comprehensive exam. The comprehensive exam consists of a theoretical and a dissertation component. Students who have earned 90 credit points may register for the comprehensive exam. Regarding the procedure for the comprehensive exam, the provisions of Section 3.3 (Section 10) of the DI Operating Regulations apply for organized training programs, and those of Section 3.4 (Section 11) apply for self-prepared students.

The theoretical part of the comprehensive exam is an oral exam, during which the examinee is asked questions on two topics:

a) The subject-specific knowledge of IMDI's required courses: theories of innovation, innovation management and innovation policy, as well as theories of economics and management (see Section 3.7),
b) The material of the required elective course completed by the student (see Section 3.7).

Doctoral students will be informed about the topics covered in the comprehensive exam during registration for the fourth semester.

3.10 THE DOCTORAL DISSERTATION AND THE THESIS MANUSCRIPT

The conditions for submitting the doctoral dissertation, as well as its content and format requirements, are governed by Section 18 of the EDHSZ and Section 4.2 (Section 14) of the Operating Regulations.

4. APPENDICES

Annex 1 – Evaluation of Scientific Publication Activity

The IMDI's publication requirements follow the criteria set forth in the EDHSZ D2 Doctoral Credit Regulations. In accordance with IMDI's conceptual framework and educational objectives, the publication evaluation system has been designed to align with the academic promotion evaluation system for management and organizational science and to take into account publication and patent issues arising in the context of innovation.
Accordingly, when evaluating publication activities, IMDI:

a) for scientific journal articles, applies credit calculations not only based on the journals' impact factor (according to Clarivate Analytics) but also validates credit points based on the Scimago Journal Ranking (SJR)
b) in accordance with established practice in the social sciences, specifically within the field of management and organizational sciences, journals accepted by the MTA Section IX Economics Evaluation Committee are also counted with a specified credit value
c) In the case of innovations, the development of a new product may be hindered by intellectual property protection (patent or trademark registration procedures), therefore, the IMDI recognizes it with publication credits if the doctoral candidate substantively participated in the development of an innovative product subject to intellectual property protection (patent, trademark, or copyright protection) during their research.

Definition of a publication for evaluation purposes

IMDI accepts as publications the printed and/or electronic publications detailed below, as well as the forms of protection listed by MAB ABSZ.
When evaluating publication output, we consider printed and/or electronic publications (journal article[1], textbooks, scientific monographs, book chapters, etc.) that:

a) present the author's own research and creative results (in the case of a book, these are also cited in detail),
b) contains precise references to the literature,
c) has an ISBN or ISSN number,
d) has been peer-reviewed1,
e) is indexed (available in a well-known database)[2],
f) has an impact factor depending on the field of science or art,
g) has been published in a professional journal or as a publication, and this publication

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1 Journal: a publication designated by volume number, appearing regularly, typically at least four times a year (but in any case at least twice), containing articles written specifically for the periodical in question.

2 Peer-reviewed (referred) publication: the work was reviewed by independent reviewer(s) prior to publication. Acceptance of a conference presentation based on an abstract and its publication in conference proceedings does NOT constitute peer review. 13 Referenced publication: the candidate's work (i.e., all works other than book chapters) appears under the candidate's name in a searchable database (e.g., Web of Science/Science Citation Index, Scopus, Engineering Index, etc.) or in a referencing journal

h) is published by an internationally or at least nationally recognized publisher[3]3,

preferably in a foreign language widely used in professional circles,

a) available and accessible in major public libraries,
b) can be ordered or purchased,
c) an artistic work or innovative experimental work presented publicly.

The following cannot be considered in terms of the applicant's scientific publication record:

- articles published in a daily newspaper or a non-professional weekly (even if the topic is of a professional nature),
- works published at the author's own expense (unless professionally peer-reviewed),
- university or college lecture notes, teaching aids, handouts, example collections, compilations, editing, text editing, etc.,
- (book) translations, except for translations of classics with textual editing,
- reviews (book reviews) or critiques (except for longer work analyses),
- research reports prepared as part of a grant application or on commission,
- theses, dissertations,
- other manuscript-type treatises or writings,
- popular science writing (e.g., in Élet és Tudomány),
- interviews not intended for research purposes (neither as a reporter nor as an interviewee),
- performing arts productions or artistic works not presented to the public.

Minimum publication requirements for degree conferral

At least **75 credits** must be earned through publications related to the research topic, of which 10 credits must be completed during the first four semesters, within the training and research phase.

In addition to earning the 75 publication credits, the following conditions must be met:

a) The number of published publications, or those verifiably in press with a statement from the editor or publisher, must be at least 5, of which:
b) at least two are journal articles published or accepted for publication in an internationally recognized peer-reviewed journal in the field, at least one of which is in English and at least one of which is closely related to the research topic
c) At least one of the two peer-reviewed journal articles in a foreign language must be published in a journal listed in the Web of Science, Scopus, IEEE Xplore, or Thomson Reuters database.
d) A maximum of 18 credits may be earned through journal articles in Hungarian
e) The written consent of the university supervisor is also required for the publication of these articles. If the PhD student violates this requirement, they shall bear the legal consequences.

[3] 2Domestically published, internationally distributed publication: a publication that has appeared in an official, regular, high-circulation publication with international distribution.

f) PhD students participating in the Cooperative Doctoral Program may submit any specific scientific or other publication to journals or conferences only with the written permission of a representative of the "corporate expert's" employer.

Verification of Compliance with Minimum Requirements

The condition for obtaining the absolutorium is the fulfillment of 75 publication credits. The DIT verifies compliance with the publication requirements prescribed by the EDHSZEDHSZ Section 18 as a condition for obtaining the doctoral degree on two occasions during the degree conferral process:

a) during the verification of the publication record required for the award of the certificate of completion, following which the DIT informs the doctoral candidate whether or not they have fulfilled the publication requirements for the degree;
b) upon submission of the dissertation.

(If the initiation of the procedure and the submission of the dissertation coincide, the committee shall examine the fulfillment of both requirements together.)

The minimum requirements and the scoring of publications serve as a benchmark for candidates to evaluate their publication activity and determine when to initiate the doctoral procedure; on the other hand, they provide a threshold for proposers, below which it is generally not recommended to initiate the doctoral procedure. It should be noted, however, that in the decision regarding the award of the degree, the quality of the publications is just as important as their quantity.

The proposer (and, based on the proposal, the DIT) verifies compliance with the minimum requirements based on the submitted list of publications. If the minimum requirements are not met, the DIT will reject the submitted application.

Scoring of Publications

When evaluating publication activity, only data appearing in the Hungarian Research Library (MTMT) may be taken into account, as follows:

Credit values of publications

Scientific publications*	**Credits**
SCIENTIFIC, PEER-REVIEWED JOURNAL ARTICLE	
Article published in a journal with an impact factor**	36
Article published in a foreign journal without an impact factor**	22
Article published in a domestic journal without an impact factor**	16
Article published in a Q1 Scimago-rated journal	36
Article published in a Q2 Scimago-rated journal	24
Article published in a Q3 Scimago-rated journal	18
Article published in a Q4 Scimago-rated journal	10
Article published in a journal listed in Web of Science Emerging Sources	18

Article in a Hungarian-language journal listed on the MTA Section IX Economics Evaluation Committee's list of featured journals (Categories A and B)	18
Article in a Hungarian-language journal listed on the MTA Section IX Economics Evaluation Committee's list of featured journals (Categories C and D)	10
CONFERENCE PAPER (peer-reviewed conference paper)	
Peer-reviewed conference paper (min. 4 pages) in a publication with an ISBN number, in print or electronic form, in a foreign language	24
Peer-reviewed conference paper (min. 4 pages) in a publication with an ISBN number, in print or electronic form, in Hungarian	6
ABSTRACT	
Conference presentation with an abstract published in a conference proceedings or journal with an ISBN or ISSN number in a foreign language	4
Conference presentation with an abstract published in a conference proceedings or journal with an ISBN or ISSN number in Hungarian	3
SCIENTIFIC BOOK, BOOK CHAPTER	
A scientific book or book excerpt published abroad in a foreign language, at least 10 pages in length (not a conference publication):	24
Scientific book or book chapter published in a foreign language in Hungary	2 credit / 20 full pages
Scientific book or book chapter published in Hungarian in Hungary	1 credit / 20 full pages
INTELLECTUAL PROPERTY FORMS	
Domestic and international intellectual property forms listed by MAB ABSZ, including utility model protection	36 kredit

**A paper is considered published if it has been accepted for publication as verified by the editor/publisher.*

***The impact factor determined by Clarivate Analytics may be taken into account.*

The following criteria must be followed when calculating the credit values of publications:

a) For scientific articles (peer-reviewed journal articles, conference papers, abstracts) and books or book chapters, the credit score must be divided by the number of authors who are not the supervisor; an exception applies if the doctoral candidate is the first or last author, in which case division is not required.
b) Based on a decision by the Doctoral School Council, in justified cases, division according to the ratio specified in a co-authorship statement may also be applied; in this case as well, the supervisor's co-authorship must be disregarded.
c) If the peer-reviewed journal article was published in a journal (or is verifiably in press, as attested by an editor's or publisher's statement) for which credit points can be

assigned based on both the impact factor (according to ClarivateAnalytics) and the SJR, then the credit points must be determined based on the rating that is more favorable to the candidate.

d) If the SJR assigns different classifications to the journal in which the scientific article was published (or is verifiably in press, as confirmed by a statement from the editor or publisher) across different disciplines, the credit points must be determined based on the classification that is more favorable to the candidate.
e) The IF value and SJR ranking shall be based on the latest ranking known at the time of the publication's acceptance or the value determined at the time of publication.
f) Based on a decision by the Doctoral School Council, scientific publications appearing in journals recognized by other committees of MTX Class IX or other classes of the Hungarian Academy of Sciences may be counted toward publication credits.
g) Prior to the initiation of the procedure (or even at the time of submission of the publication), the doctoral candidate may request a statement from the IMDI Doctoral School Council regarding the classification of the given publication.
h) Published (and registered in the MTMT) patent or utility model applications for which the doctoral candidate is the sole or joint inventor may be counted toward fulfilling the publication requirements and credits. Counting toward publication requirements is subject to the following conditions:
    - A published patent or utility model application is worth 36 publication credits
    - A maximum of 36 publication credits may be earned through published forms of protection during the program
    - Doctoral candidates are exempt from the requirement to publish one journal article as defined in point b) of the Minimum Publication Requirements, which states "at least two journal articles published or accepted for publication in internationally recognized peer-reviewed journals in a foreign language"

Annex 2 - Academic credit certificate form

Óbuda University Doctoral School of Innovation Management (IMDI)

Certificate of academic credit

Student name: .....

Neptun code: .....

Semester: .....

Teljesített tantárgyak

Neptun code	Subject title	Subject coordinator	Type*	Credit value

*C - compulsory; E. – Elective course-unit; OP. - optional

Total credit points:: .....

Date: .....

.....	.....
Name	Name
Secretary of the IMDI	Thesis supervisor

Annex 3 - Research Project Credit Verification Form

Óbuda University Doctoral School of Innovation Management (IMDI)

Research project credit certificate sheet

Student name: .....

Neptun code: .....

Semester: .....

Name of research project, research leader	Task completed	Suggested credits	Signature of the head of research

Total credit points: .....

Date: .....

.....	.....
Name	Name
Secretary of the IMDI	Thesis supervisor

Annex 4 - Publication credit certificate form

Óbuda University Doctoral School of Innovation Management (IMDI)

Publication credit certificate

(Please fill in only the information relevant to the current semester!)

Student name: .....

Neptun code: .....

Semester: .....

Check sheet

REQUIREMENTS	**Accomplishment**	
The publications to be included in the evaluation have been registered in the MTMT	yes	no
The university supervisor has provided written approval for each published paper.	yes	no
The PhD student participating in the Cooperative Doctoral Program has obtained written permission to submit the paper from a representative of the "corporate expert's" employer.	yes	no / not relevant
At least 5 publications have been published or are verifiably in press.	yes	no
At least two publications are journal articles published or accepted for publication in an internationally recognized peer-reviewed journal in a foreign language within the field.	yes	no
Of the two peer-reviewed journal articles in a foreign language, at least one was published in a journal listed in the Web of Science, Scopus, IEEE Xplore, or Thomson Reuters.	yes	no
Due to the creation of a form of protection, the candidate is exempt from the requirement to publish one of the "at least two journal articles published or accepted for publication in internationally recognized peer-reviewed foreign-language journals in the field" as part of the minimum criteria.	yes	no / not relevant

Credit values of publications, scoring*

Scientific publications	Credit Value	Publication MTMT identifier	Classification of publication PTMT (type, classification, nature)	PhD candidate's share of authorship (%)	Publication credit
SCIENTIFIC, PEER-REVIEWED JOURNAL ARTICLE					
Article published in a journal with an impact factor**	36				
Article published in a foreign journal without an impact factor**	22				
Article published in a domestic journal without an impact factor**	16				
Article published in a Q1 Scimago-rated journal	36				
Article published in a Q2 Scimago-rated journal	24				
Article published in a Q3 Scimago-rated journal	18				
Article published in a Q4 Scimago-rated journal	10				
Article published in a journal listed in Web of Science Emerging Sources	18				
Article in a Hungarian-language journal listed on the MTA Section IX Economics Evaluation Committee’s priority journal list (Categories A and B)	18				
Article in a Hungarian-language journal listed on the MTA Section IX Economics Evaluation Committee’s priority journal list (Categories C and D)	10				

CONFERENCE PAPER (peer-reviewed conference paper)					
Peer-reviewed conference paper (min. 4 pages) in a publication with an ISBN number, in print or electronic form, in a foreign language	24				
Peer-reviewed conference paper (min. 4 pages) in a publication with an ISBN number, in print or electronic form, in Hungarian	6				
ABSTRACT					
Conference presentation with an abstract published in a conference proceedings volume or professional journal with an ISBN or ISSN number, in a foreign language	4				
Conference presentation with an abstract published in a conference proceedings volume or professional journal with an ISBN or ISSN number, in Hungarian	3				
SCIENTIFIC BOOK, BOOK EXCERPT					
Scientific book or book chapter published abroad in a foreign language, at least 10 pages in length (not a conference publication):	24				
Scientific book or book chapter published in Hungary in a foreign language:	2 credits / 20 full pages				
Scientific book or book chapter published in Hungary in Hungarian:	1 credits / 20 full pages				
FORMS OF PROTECTION**					

Domestic and international forms of protection listed by MAB ABSZ, utility model protection	36 credits			-	
TOTAL	-			-	

*This may be expanded with additional entries as needed if the candidate has published multiple works of a given type.

**A maximum of 36 credits may be earned in this category.

Attachment: MTMT certificate listing only the publications to be claimed for the given semester

Annex 5 - Education credit certificate form

Óbuda University Doctoral School of Innovation Management (IMDI)

Education credit certificate form

Student name: .....

Neptun code: .....

Semester: .....

Subject taught

University where the course was taught, Neptun code	Subject name	Task completes (weekly course load)	Suggested credits	Signature of the person responsible for the subject	Signature of the head of the department responsible for education

Presentation

University where the course was taught, Neptun code	Subject name	Title of presentation, date (weekly course load)	Suggested credits	Signature of the person responsible for the subject	Signature of the head of the department responsible for education

Total credit points: .....

Date: .....

.....	.....
Name	Name
Secretary of the IMDI	Thesis supervisor

Annex 6 - Half-yearly written report

Óbuda University Doctoral School of Innovation Management (IMDI)

Written half-yearly report

Student name: .....

Neptun code: .....

Semester: .....

Summary of the activity carried out

a) learning activities
b) research activities

Evaluation of the student's progress

a) Student self-assessment
b) Feedback from the topic leader

Plan for next semester

a) Study plan
b) Research plan
c) Publication plan
d) Personal development plan

Resource requirements for the next semester

a) Resource requirements of the planned tasks
b) Resources available to carry out the planned tasks

Annexes

1) Certificate of academic credit
2) Research project credit certificate sheet
3) Education credit certificate form
4) Publication credit certificate
5) MTMT publication list

Date: .....

.....	.....
Name	Name
Student	Thesis supervisor