



**Doctoral School of Applied Informatics and
Applied Mathematics
Quality Objectives
Academic Year 2025–2026**

October 2025

The Doctoral School of Applied Informatics and Applied Mathematics (AIAMD I) has developed its quality objectives for the 2025–2026 academic year based on the Objectives and Key Results (OKR) methodology. The OKR is an organizational performance management framework primarily designed to create coherence between strategic directions and daily operational activities. The foundation of the OKR consists of qualitative, inspirational goals (Objectives), which are paired with quantitatively measurable Key Results, thereby ensuring an objective evaluation of progress. The theoretical significance of the OKR system lies in its ability to align objectives formulated at different levels of the organization (e.g., aligning the Doctoral School’s Quality Assurance Plan and quality objectives with the comprehensive quality goals approved by the University Doctoral and Habilitation Council – EDHT), promoting transparency, accountability, and agility. From both a scientific and practical perspective, the OKR can be considered a modern, adaptive form of management control systems that, unlike static performance indicators, responds dynamically to changing environmental and market conditions.

Comprehensive quality goals defined by the EDHT	Quality Objectives broken down by AIAMD I	Key Result	Remarks
O(EDHT)1: Increasing the proportion of high-quality publications (D1, Q1, Q2), with a specific focus on achieving a higher ratio of international (foreign) publications.	O(AIAMD I)1.1 Increasing the number of D1-ranked quality publications	O(AIAMD I)1.1KR1: A minimum of 3 D1-ranked quality publications among the publications of core members, supervisors, and instructors.	
	O(AIAMD I)1.2 Increasing the number of Q1-Q2 ranked quality publications.	O(AIAMD I)1.2KR1: A minimum of 30 Q1-Q2 ranked quality publications among the publications of core members, supervisors, and instructors.	
		O(AIAMD I)1.2KR2: A minimum of 10 Q1-Q2 ranked quality publications among student publications.	
	O(AIAMD I)1.3 Increasing the ratio of international (foreign) publications within the D1-Q1-Q2 ranked quality publications category.	O(AIAMD I)1.3KR1: Achieving a minimum 50% international (foreign) publication ratio within the Q2-ranked quality publications of core members, supervisors, and instructors.	The vast majority of D1 and Q1 publications are exclusively international.
O(AIAMD I)1.3KR2: Achieving a minimum 30% international (foreign)			

		publication ratio within the Q2-ranked quality publications among student publications.	
O(EDHT)2: Improving the PhD completion rate	O(AIAMDI)2.1 Increasing the ratio of students reaching absolutorium (pre-degree certificate).	O(AIAMDI)2.1KR1: Achieving a pre-degree (absolutorium) completion rate of over 80% in organized training.	
		O(AIAMDI)2.1KR1: Achieving a pre-degree (absolutorium) completion rate of over 65% for students on the individual preparation track.	
	O(AIAMDI)2.2 Time-phased monitoring of thesis development.	O(AIAMDI)2.2KR1: Mandatory dissertation presentation one and a half years after the complex exam to assess the degree of progress.	The doctoral candidate must submit their doctoral thesis within three academic years following the complex exam, as defined in the doctoral regulations.
		O(AIAMDI)2.2KR2: Mandatory dissertation presentation two and a half years after the complex exam to assess the degree of progress.	
O(EDHT)3: In order to reduce the attrition rate, the development of a prevention system, the investigation of the causes of dropout, and based on these, the provision of personalized support opportunities for doctoral students to ensure successful completion (implementation of a mentor-tutor system and a student well-being program).	O(AIAMDI)3.1 Strengthening doctoral supervision.	O(AIAMDI)3.1KR1: Mandatory maintenance of a consultation log each semester, with a minimum requirement of 4 consultation sessions.	
	O(AIAMDI)3.2 Implementing the 'four-eyes principle' in doctoral supervision.	O(AIAMDI)3.2KR1: Six months after the complex exam, the AIAMDI appoints a "professional evaluator" for every student. This evaluator examines the student's research topic and progress; if they find the results insufficient or the advancement not time-proportional, they provide recommendations to the supervisor.	The supervisor is responsible for deciding how to implement suggestions, and maintains autonomy in the supervision of the student.
	O(AIAMDI)3.3 Implementing a student peer-mentoring system.	O(AIAMDI)3.3KR1: Students in the research and dissertation phase provide peer-mentoring support to first- and second-semester students.	It is mandatory for doctoral students participating in the EKÖP grant program who have already

		Launching a pilot program in the upcoming academic year with 3 pairs of students.	passed their complex exam.
<p>O(EDHT)4: Development of a reward system for the publication activities of doctoral students</p>	<p>O(AIAMDI)4.1 Introduction of financial incentives to encourage the publication activity of doctoral students.</p>	<p>O(AIAMDI)4.1KR1: Awarding a monthly publication bonus to the student with the highest number of publications in the preceding semester.</p>	The AIAMDI shall determine the amount of the publication reward in consultation with the EDHT.
		<p>O(AIAMDI)4.1KR2: Awarding enhanced conference participation support to the student with the highest publication output in the preceding semester.</p>	The AIAMDI shall determine the amount of the increased conference participation grant in consultation with the EDHT.
	<p>O(AIAMDI)4.2 Introduction of non-financial incentives to encourage the publication activity of doctoral students.</p>	<p>O(AIAMDI)4.2KR1: Establishment and ceremonial presentation of the "AIAMDI Publication of the Year" award.</p>	The proposed ceremony: University Day.
		<p>O(AIAMDI)4.2KR2: Featured recognition on the Doctoral School's website.</p>	A news item briefly summarizing the publication, which also introduces the doctoral student and their body of work.
<p>O(EDHT)5: Establishment of a committee within the Doctoral Student Council (DÖK) to monitor research activities.</p>	<p>O(AIAMDI)5.1 Providing administrative support from the Doctoral Student Council (DÖK) to the AIAMDI.</p>	<p>O(AIAMDI)5.1KR1: In accordance with the objective defined by the University Doctoral and Habilitation Council (EDHT), a Doctoral Research Activity Monitoring Committee shall be established within the framework of the Doctoral Student Council (DÖK). This committee will submit semi-annual reports on the research activities of AIAMDI PhD students to the AIAMDI.</p>	The content of the report shall be pre-defined by the President of the DÖK and the Head of the AIAMDI.
<p>O(EDHT)6.1: Enhancing international activity in PhD programs: increasing the proportion of PhD student mobility (participation in</p>	<p>O(AIAMDI)6.1.1 Promoting and supporting PhD student mobility.</p>	<p>O(AIAMDI)6.1.1KR1: A 10% increase in the PhD student mobility rate compared to the previous year.</p>	

<p>part-time studies and research abroad) compared to the previous year.</p>			
<p>O(EDHT)6.2: Enhancing international activity in PhD programs: Increasing the participation rate of international visiting professors and foreign supervisors in doctoral training compared to the previous year.</p>	<p>O(AIAMDI)6.2.1 Reaching out to new potential international supervisors through the network of EKIK (University Research and Innovation Center) research centers and research groups.</p>	<p>O(AIAMDI)6.2.1KR1: A 5% increase in the proportion of new international supervisors compared to the previous year.</p>	
<p>O(EDHT)6.3: Enhancing international activity in PhD programs: Expanding the scope of international cooperation agreements compared to the previous year</p>	<p>O(AIAMDI)6.3.1 Expanding partnerships.</p>	<p>O(AIAMDI)6.3.1KR1: Reviewing existing partnerships, and terminating or renewing inactive collaborations.</p> <p>O(AIAMDI)6.3.1KR2: Establishing 1 new international and 2 new domestic partnerships.</p>	<p>The objective 'O4: Expansion of Partnerships' defined in the Action Plan of the AIAMDI 2024-2025 performance evaluation report corresponds to objective O(AIAMDI)6.3.1 herein; likewise, the two key results assigned to it (O4KR1 and O4KR2) correspond to the key results O(AIAMDI)6.3.1KR1 and O(AIAMDI)6.3.1KR2.</p>
<p>O(EDHT)7: Increasing the number of doctoral courses taught in a foreign language by 5–10% compared to the previous year.</p>	<p>O(AIAMDI)7.1 Engaging existing international supervisors within the AIAMDI to deliver doctoral courses.</p>	<p>O(AIAMDI)7.1KR1: A 5% increase in the number of doctoral courses offered in a foreign language compared to the previous year.</p>	<p>For several semesters, the AIAMDI has been ensuring partial interoperability of its training portfolio with those of the NIK and EKIK; courses held by international lecturers under the auspices of these organizational units are also accessible to AIAMDI students.</p>

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Approved by: Prof. Dr. Gyula Simon, Head of the AIAMDI

