



ÓBUDAI EGYETEM
ÓBUDA UNIVERSITY

Doctoral School of Applied Informatics and Applied Mathematics

PhD Guide

2025/26/2. Semester



TALENT.
SUCCESS.
COMMUNITY

Doctoral School Staff Members



Prof. Gyula Simon

Head of the Doctoral School

simon.gyula@amk.uni-obuda.hu

- Assessment of research topics and doctoral student applications



Dr. István Németh

Deputy Head of the Doctoral School

nemeth.istvan@kvk.uni-obuda.hu

- Operational and research issues



Prof. László Horváth

Director of Operations

horvath.laszlo@nik.uni-obuda.hu

- Admissions and research reports



Zsuzsanna Bácskai

Administrator

bacsikai.zsuzsanna@uni-obuda.hu

- Maintaining contact with students



Júlia Nagy

Administrator

nagy.julia@nik.uni-obuda.hu

- Neptun administration

The Structure of the Doctoral Program

1

- Training and research phase (Semesters 1-4)
min. 90 credits, curricular requirements

2

- Complex exam (at the end of the 4th semester)

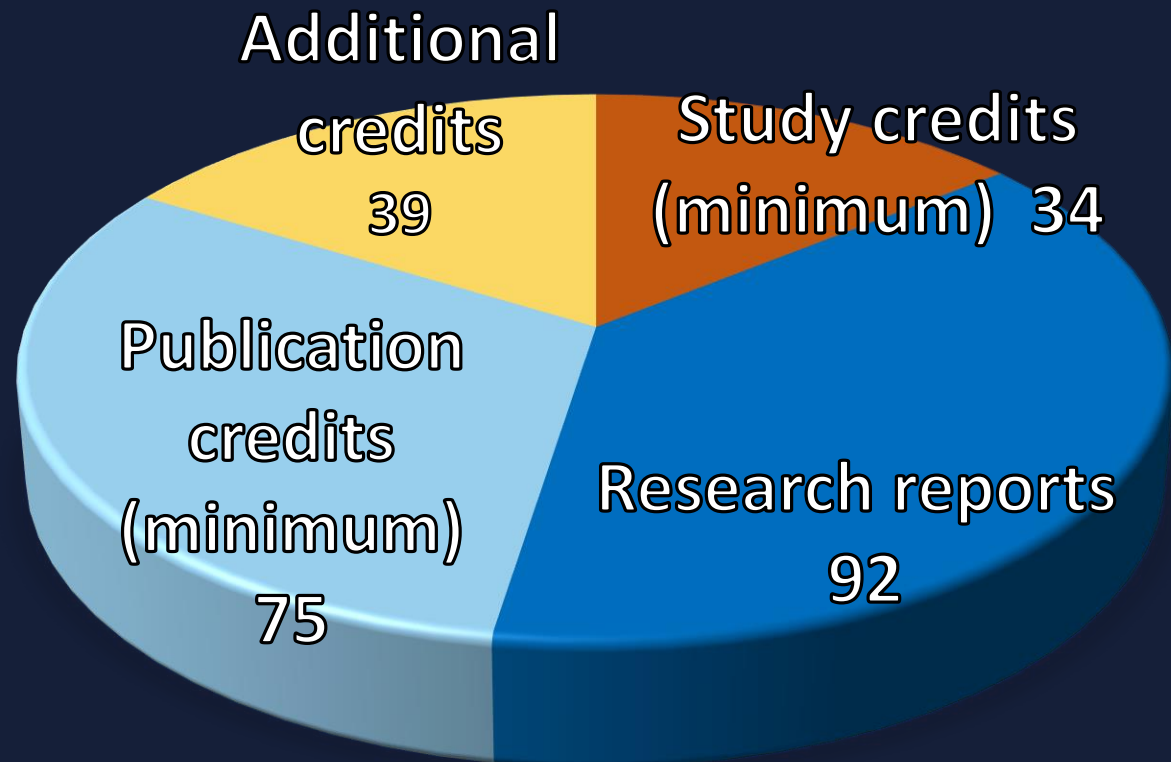
3

- Research and dissertation phase
(Semesters 5-8)

4

- Doctoral degree acquisition process
 - Workplace discussion / debate
 - Public debate / doctoral defense

Required Credits – Summary



8 active
semesters
(2 passive)
240 credits

Required credits – Details

Type of credit		Number of credits	Minimum	Maximum
Study credits		7 per core subject 6 per soft skills subject	28 6	60
Research credits	Semesterly research report	Semesters 1-4: 8 Semesters 5-8: 15	32 60	92
	Active participation in research projects (optional)	6-10 per project		
	Publication, conference presentation		75	
Education credits (optional)		teaching 1 contact hour per week: 2		60
Total			240	

Necessary soft skills

for researchers in mathematics and computer science as well



Time Management

Defining priorities and effective time management using techniques like GTD and Pomodoro.



Scientific Writing

Effective and clear scientific writing, article structure, and ethical considerations.



Presentation Skills

Preparing impactful presentations with slide design, visualization, and storytelling.



Research Collaboration

Collaboration within and outside research groups, attending conferences, and using online networks.



Career Planning

Career opportunities, writing CVs, and building a scientific reputation.



Critical Thinking

Thinking critically about scientific problems, biases, fallacies, and logical structures.



Research Ethics

Scientific misconduct, plagiarism, data management ethics, and conflict resolution.



Professional Feedback

Writing and interpreting professional reviews, giving constructive feedback, and handling criticism.



Teaching Skills

Effective university teaching, supporting students, and using feedback techniques.



Grant Writing

Funding sources, preparing research plans, and tips for successful grant writing.

Curriculum and expected publications by semesters

Semester	Focus of the semester	Student quality objective (cumulative credits)	Recommended cumulative publication credits
I.	Studies (two core subjects and a soft skills subject)	Mandatory requirement recorded in the University Doctoral and Habilitation Regulations (anyone who fails to meet the specified amount by the end of the semester cannot proceed to the next one)	Recommended progress, not mandatory (the minimum 75 credits should be achieved by the end of the 8th active semester)
II.	Studies (one core subject and a soft skills subject)		
III.	Studies, Research (one core subject)		
IV.	Complex Exam (replaces the semesterly research report)		
V.	Research		
VI.	Research		
VII.	Research		
VIII.	Research (publishing Q1-Q2 journal articles is advised)		

Model curriculum and expected publications by semesters

Semester	Focus of the semester	Student quality objective (cumulative credits)	Recommended cumulative publication credits
I.	Studies (two core subjects and a soft skills subject)	20 credits	While a published paper is not a mandatory requirement yet, you must start preparing for one.
II.	Studies (one core subject and a soft skills subject)	45 credits	10 credits
III.	Studies, Research (one core subject)	75 credits	25 credits
IV.	Complex Exam (replaces the semesterly research report)	90 credits	25 credits (due to the complex exam)
V.	Research	110 credits	40 credits
VI.	Research	150 credits	50 credits
VII.	Research	180 credits	65 credits
VIII.	Research (publishing Q1-Q2 journal articles is advised)	240 credits	75 credits

Study credits

in the first 4 semesters

- min. 4 core subjects
(7 credits / subject)
- min. 1 soft skills subject
(6 credits / subject)

Minimum: 34 credits

Maximum: 60 credits

4th semester: complex exam
from 2 studied core subjects
(counts as research report credit)





ÓBUDAI EGYETEM
ÓBUDA UNIVERSITY

Research/Publication credits

- **Minimum: 75 credits**
- **Maximum: none (counts in the 39 additional credits)**
- Peer-reviewed journal articles:
 - With impact factor (IF): 36 credits
 - Without IF, published abroad: 24 credits
 - Without IF, published in Hungary: 18 credits
- Conference papers (minimum 4 pages) published in a book with ISBN or DOI:
 - In a foreign language: 24 credits
 - In Hungarian: 6 credits
- Scientific books or book chapters:
 - In a foreign language: 3.6 credits per 20 pages
 - In Hungarian: 1.8 credits per 20 pages

Credits of each publication are divided by the number of authors (excluding the supervisor of the doctoral student).



“When assessing the publication activity, only the data published in the Hungarian Science Bibliography (MTMT) can be taken into account.”
(Doctoral School of Applied Informatics and Applied Mathematics - Operational Regulations)”

Help with registration and administering publications:

mtmt@uni-obuda.hu



Magyar
Tudományos
Művek
Tára



[Library of Óbuda University](#)



ÓBUDAI EGYETEM
ÓBUDA UNIVERSITY

Semesterly research reports (written and oral)

- 8 credits in Semesters 1-4.
- 15 credits in Semesters 5-8.

after the exam period
except for: 4th semester
(complex exam)

Total: 92 credits



Written report


- Research work during the semester
- Courses taken
- Courses taught
- Participation in research projects
- Published or accepted publications (MTMT)
- Certifications, signatures

Oral report

- Short presentation of research work


<https://aiamdi.uni-obuda.hu/en/end-semester-report/>

End-of-semester research reports

1 

Details of research work, courses, projects, publications, and certifications.

Written Report

2 

A brief presentation summarizing the research work.

Oral Report

Complex Exam (4th Semester)

can be repeated once within the same exam period

1. Theoretical Part

From two core subjects you have studied

Assigned by the Chair of the Doctoral School in the 4th semester

2. Dissertation Part

Report on research progress

A ten-page thesis-booklet

Additional credits (39 credits)

- Education credits (max. 60)
teaching 1 contact hour per week: 2 credits
Max. 5 credits in Semesters 1-4
Max. 10 credits in Semesters 5-8
- Participation in research projects (max. 40)
6-10 credits per project
Certifications are needed
- Study credits (max. 60)
- Publication credits



Doctoral degree acquisition process

"Following the complex exam, the doctoral student must submit their doctoral dissertation **within three academic years**, in accordance with the doctoral regulations. This deadline may be extended by a maximum of one academic year in cases meriting special consideration, as defined by the doctoral regulations." (Nftv. 53. § (4))

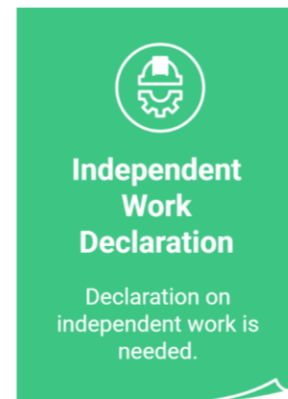
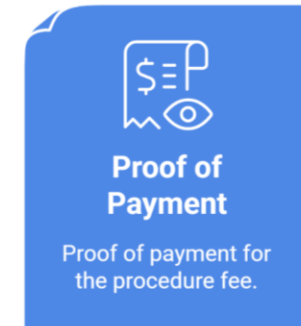
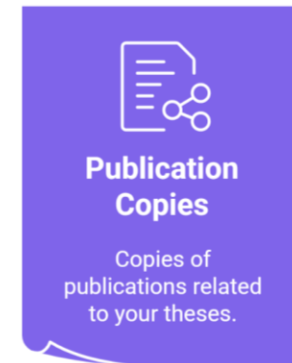
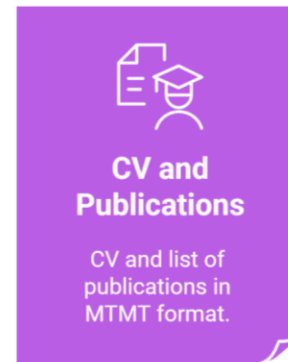
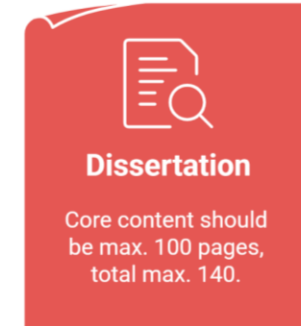
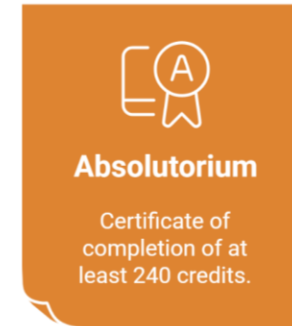
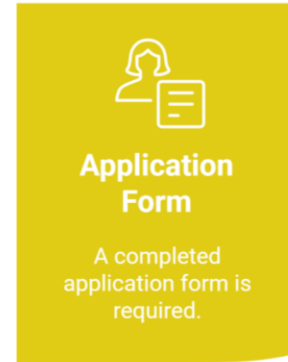


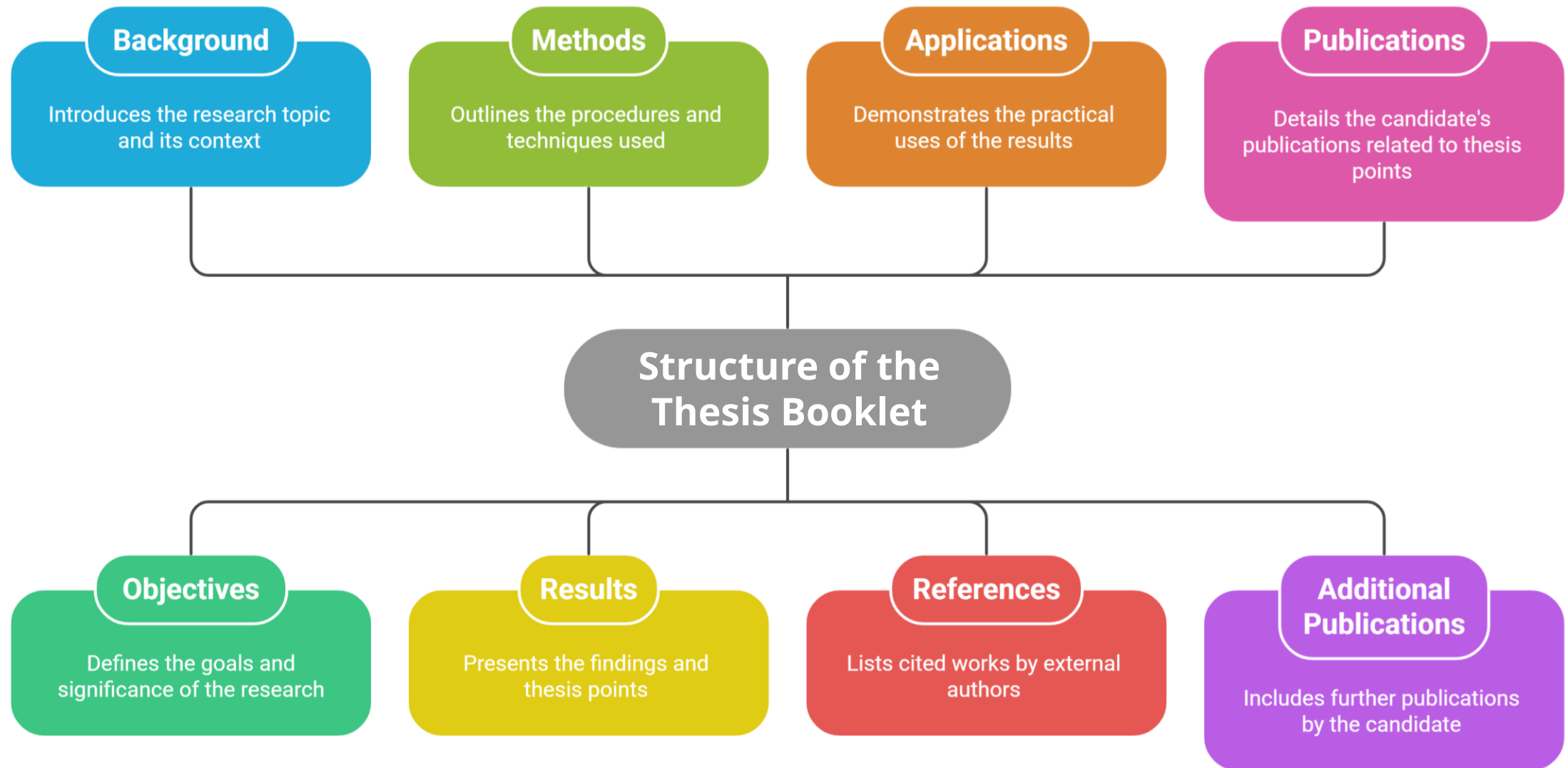
Additional publication requirements for the PhD degree

- Min. **5 publications**
- Min. **3 publications in English**, with at least 50% authorship (supervisors excluded)
- Min. **2 published or verifiably accepted journal articles** in internationally recognized, peer-reviewed journals (connected to the thesis points)
 - At least one of these journals should be indexed in the Web of Science, Scopus or Thomson Reuters databases.
- At least **half of the thesis points** should be supported by journal articles or conference papers.
- Co-author declarations are not needed from your supervisors and your foreign co-authors.

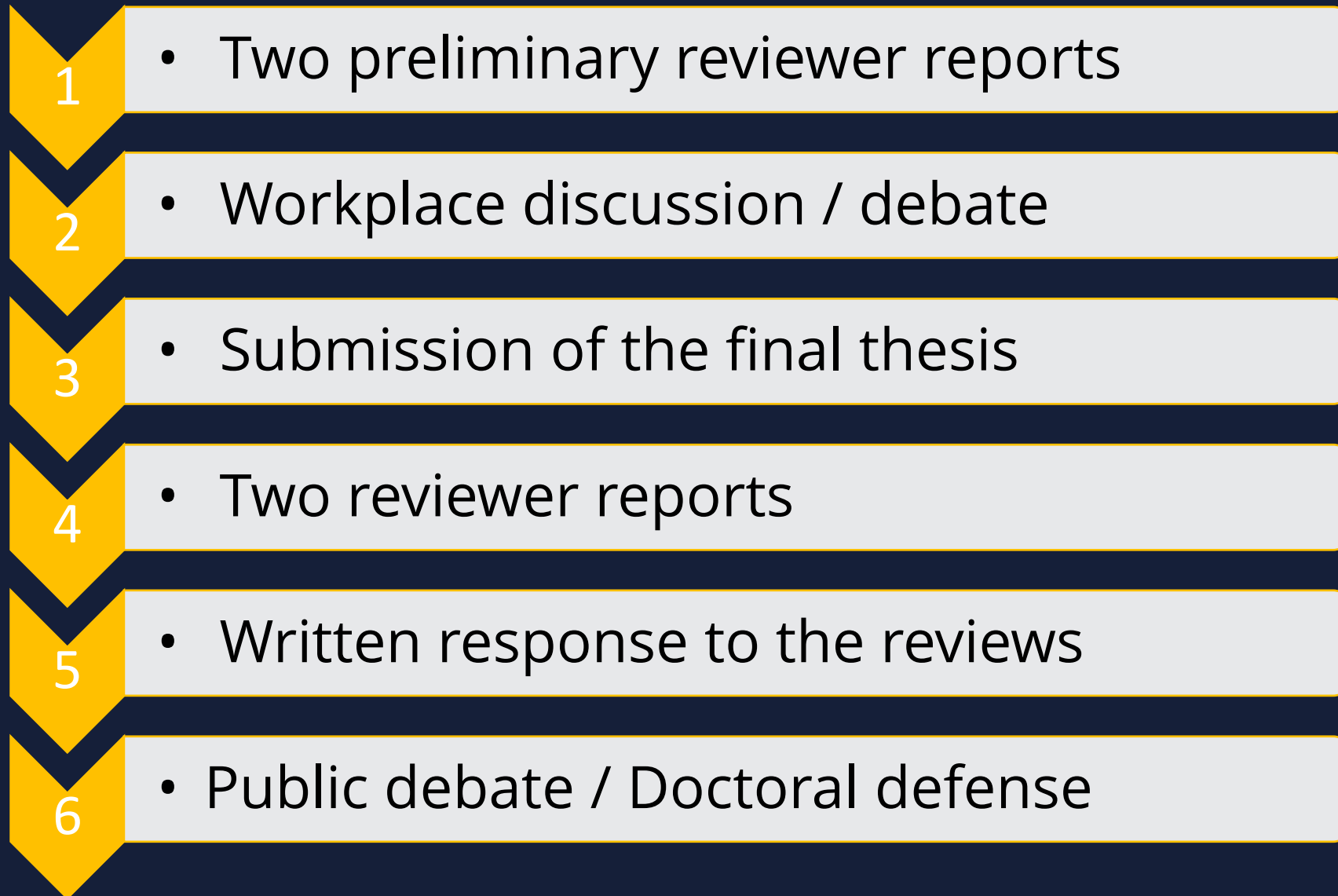
Initiating the doctoral degree acquisition process

- Completed application form
- Absolutorium (certificate of completion of at least 240 credits in the required distribution)
- Dissertation (core content: max. 100 pages, max. 140 in total)
- Thesis-booklet (summary with a defined structure)
- CV and list of publications (MTMT)
- Copy of your publications related to your theses
- Proof of payment (procedure fee)
- Co-author declarations
- Declaration on independent work
- Declaration on public disclosure
- Supervisor's supporting statement





The dissertation review process



Research related information

Open Access support

request for exemption: Article Processing Charges (APC)
for publications in 2025

<https://lib.uni-obuda.hu/open-access-tamogatas>

Business travel

Domestic and international business travels
(travel and/or registration fee allowance)

[Óbudai Egyetem Kiküldetési Szabályzata](#)

Acta Polytechnica Hungarica

OU Journal, Q2, IF: 1.8

[Acta Polytechnica Hungarica](#)

International Conferences

<https://conf.uni-obuda.hu/>

Support from the Doctoral School can be requested upon an accepted application
(e-mail: Zsuzsanna Bácskai)

- Travel support (to neighboring countries) at least one month before the planned trip
e.g., SAMI (Slovakia), SACI (Romania), SISY (Serbia), INES (Italy)
- Funding for the registration fee,
e.g., ICCC 2025 (Seychelles)

PhD Seminars at the Neumann Faculty

At the John von Neumann Faculty of Informatics, it is a long-standing tradition to hold PhD Tea Afternoons. During these events, doctoral students regularly present their research to their colleagues. For the PhD students, this consistent feedback is of significant value, as it allows them to continuously refine the direction of their research, their methodology, presentation style, or even the wording of their dissertation.





ÓBUDAI EGYETEM
ÓBUDA UNIVERSITY



Thank you for your attention!