



ÓBUDAI EGYETEM
ÓBUDA UNIVERSITY

Doctoral School of Applied Informatics and Applied Mathematics

Info Day

2026/27/1. Semester



World
University
Rankings
2025 TOP 800



TALENT.
SUCCESS.
COMMUNITY

Doctoral School Staff Members



Gyula Simon, professor, DSc

Chair of the Doctoral School

simon.gyula@amk.uni-obuda.hu

- Assessment of research topics and doctoral student applications



István Németh, PhD

Vice-chair of the Doctoral School

nemeth.istvan@kvk.uni-obuda.hu

- Operational and research issues



László Horváth, professor emeritus, CSc

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



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Doctoral schools at OE

Doctoral School of
Architecture, Design, and
Technology

Doctoral School on Safety
and Security Sciences



Doctoral School of
Innovation Management

Doctoral School of
Applied Informatics and
Applied Mathematics

Doctoral School on
Materials Sciences and
Technologies

Doctoral school in numbers



Organized program with scholarship
~ 60 students



Organized self-funded program
~ 25 students



Individual training program
~ 20 students



Stipendium Hungaricum program
~ 20 students

The Hungarian Government established the Stipendium Hungaricum scholarship programme to promote the internationalisation of Hungarian higher education and to attract top international students from all around the world who can establish personal and professional links to Hungary while enjoying high-quality education in the heart of Europe.



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Research topics in AIAMDI

Cyber-medical systems

Mathematical basics
and applications



Basics and applications
in informatics

Engineering models and
related computing procedures

Cyber-physical systems

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)

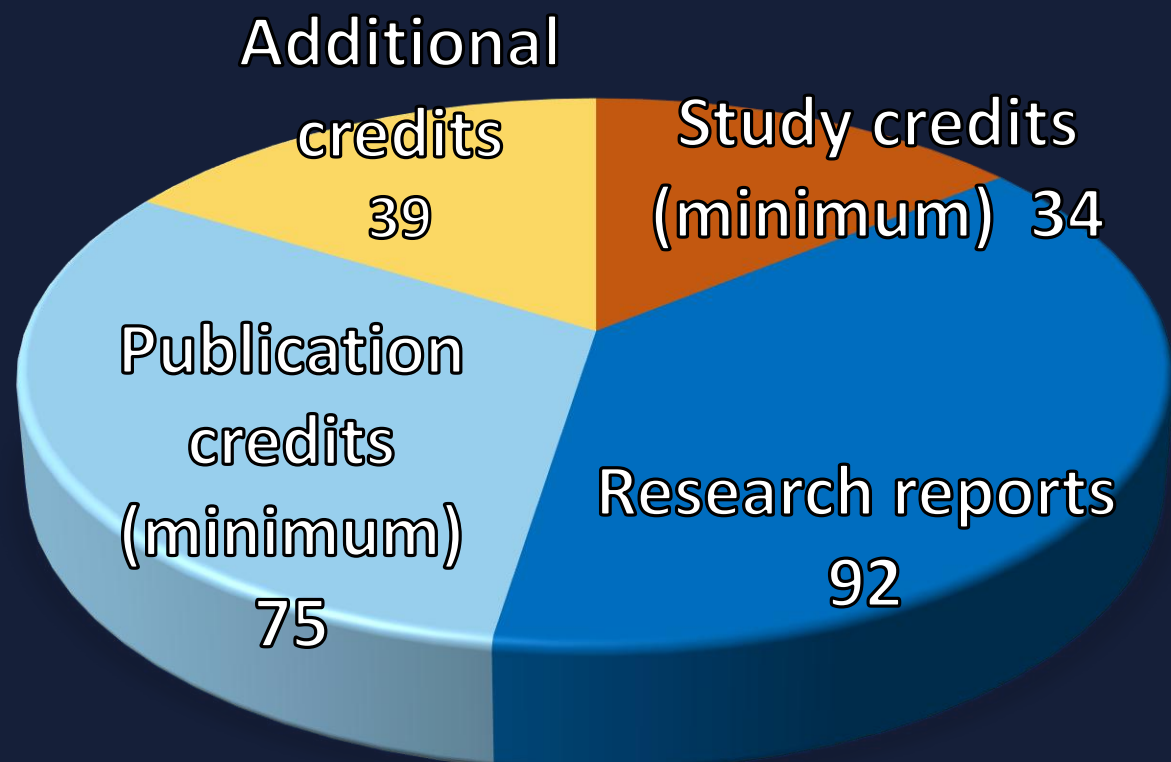
3

- 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	(preparation and publication of new journal articles / publication of conference papers)		
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	(preparation and publication of new journal articles / publication of conference papers)	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)





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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).





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“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

nemzeti tudományos bibliográfia

Nyilvános kereső felület

Szabadon elérhető

Az MTMT-ben tárolt publikációk keresése cím, szerző, téma szerinti szűrés, továbbá listázási és nyomtatási lehetőségekkel

Support portál

Részben nyilvános

Frascati kereső, szerzői és intézményi statisztikák, adatszolgáltatások, ellenőrző eszközök, egyedi riportok

Belépés az adatbázisba

Regisztrált felhasználóknak

Publikációk adatainak rögzítése, szerzői és intézményi adatok szerkesztése, listák, táblázatok, riportok készítése, [regisztráció](#)

Aktuális híreink

A Scopus-ból történő importálást átmenetileg felfüggesztettük

2025. szeptember 2.

A Scopus export változásai, illetve a letöltött export állományokban történt változtatások miatt a Scopus importot átmenetileg felfüggesztettük.

Jelenleg a hibák feltárása folyik. Jelenleg ismert problémák:

- Folyóirat ISSN mező változása
- Levelező szerző beállítások
- Szerzők listája (listából való kijelölés esetén nem kerül be az export fájlba az összes szerző)

Aki napokban talált a felsoroltakon kívül hibát az kérjük küldje el az admin@mtmt.hu címre.

Változások a Scopus-ból történő importálásban

2025. szeptember 1.

Az elmúlt időszakban problémák merültek fel a Scopusból történő import során. Az export állományban történt változások az MTMT import eljárásában is átvezetésre kerültek.

A további teendőket az alábbi dokumentumban foglaltuk össze:

[Útmutató a Scopus export 2025-ös változásaihoz](#)

A Magyar Tudományos Művek Tára (MTMT) helyes használatának szabályzata

2025. június 24.

Az MTMT Tudományos Tanács 2025. június 20-án elfogadta a Magyar Tudományos Művek Tára (MTMT) helyes használatának szabályzatát, melynek szövege elérhető a [Dokumentumok](#) között.

Új MTMT szoftver verzió (2.2.19)

2025. június 13.

legalább 3 karakter

Kérdése van?

Tekintse át a Helpdesk és a gyakran ismételt kérdések oldalait. Ha ott nem talál kielégítő választ, az ott felsorolt elérhetőségek valamelyikén keressen minket.

Helpdesk »

Fontos!

Megjelent a 2025-ben kifogásolható gyakorlatot folytató folyóiratok listája.

Megnézem »

További MTMT felületek:

[MTMT regisztráció](#)[MTMT elfelejtett jelszó](#)[Oktató szerver](#)[Redmine feladatkezelő](#)[Webmail](#)

facebook

YouTube

Kapcsolódó oldalak:



1.

Lippai, Zoltán ; Papp, Gergő* ; Szuhai, Károly ; Sápi, Johanna ; Dezső, Katalin ; Sápi, Zoltán

[🔗](#)

NTRK amplification occurs frequently in pan-TRK immunopositive dedifferentiated liposarcomas

PATHOLOGY AND ONCOLOGY RESEARCH 30 Paper: 1611993 , 9 p. (2025)

[🔗](#) DOI WoS Scopus PubMed

Szakkikk (Folyóiratcikk) | Tudományos

[35690978] [Egyeztetett]

2.

Szatmáry, Rozália ; Sápi, Johanna

Psychological Burden of Assisted Reproductive Technologies: A Comparative Analysis

In: Szakál, Anikó (szerk.) 19th IEEE International Symposium on Applied Computational Intelligence and Informatics SACI 2025 : Proceedings

Danvers (MA), Amerikai Egyesült Államok : Institute of Electrical and Electronics Engineers (IEEE) (2025) 755 p. pp. 645-650. , 6 p.

[DOI](#)

Konferenciaközlemény (Könyvrészlet) | Tudományos

[36164946] [Nyilvános]

3.

Szatmáry, Rozália ; Sápi, Johanna

Understanding female hormones: a guide to their complexity and everyday impact

In: Tick, Andrea (szerk.) Thinking Together 2 : The economy in practice

Budapest, Magyarország : Óbudai Egyetem, Keleti Károly Gazdasági Kar (2025) 123 p. pp. 1-12. , 12 p.

[DOI](#) [Egyéb URL](#) [Teljes dokumentum](#)

Könyvfejezet (Könyvrészlet) | Tudományos

[36210927] [Nyilvános]

4.

Johanna, Sapi

[🔗](#)

Finding Maximum Tolerated Dose in Phase I Oncology Clinical Trials with Bayesian Methods

ACTA POLYTECHNICA HUNGARICA 21 : 6 pp. 129-145. , 17 p. (2024)

[🔗](#) DOI WoS Scopus

Szakkikk (Folyóiratcikk) | Tudományos

[34718775] [Egyeztetett]

5.

Szatmáry, Rozália ; Sápi, Johanna

Development of an endogenous and exogenous factor based personalized risk assessment system of infertility

In: Garai-Fodor, Mónika; Csiszárík-Kocsir, Ágnes; Popovics, Anett; Edőcs, Tímea (szerk.) XIX. FIKUSZ 2024 International Conference Proceedings

Budapest, Magyarország : Óbuda University Keleti Károly Faculty of Business and Management (2024) 407 p. pp. 187-199. , 13 p.

Konferenciaközlemény (Könyvrészlet) | Tudományos

[35639982] [Admin láttamozott]

6.

Szatmáry, Rozália ; Sájevicsné, Sápi Johanna

Női meddőség: Interdiszciplináris megközelítés és IT-alapú analitikai rendszer (2024)

Szóbeli előadás, XXXV. Neumann Kollokvium 2024., 2024.december 6-7.,

Nem besorolt (Egyéb) | Nem besorolt jellegű

[35681439] [Nyilvános]

7.

Szatmáry, Rozália ; Sájevicsné, Sápi Johanna

Női meddőség: Interdiszciplináris megközelítés és IT-alapú analitikai rendszer

In: Bari, Ferenc; Rárosi, Ferenc; Szűcs, Mónika (szerk.) A digitalizáció és a mesterséges intelligencia hatása az egészségügy jövőjére : A XXXVII. Neumann Kollokvium konferencia kiadványa

Szeged, Magyarország : Neumann János Számítógép-tudományi Társaság (2024) 246 p. pp. 163-168. , 6 p.

[Teljes dokumentum](#)

Konferenciaközlemény (Könyvrészlet) | Tudományos

[35691743] [Nyilvános]

8.

Sápi, Zoltán ; Lippai, Zoltán* ; Papp, Gergő ; Hegyi, Lajos ; Sápi, Johanna ; Dezső, Katalin ; Szuhai, Károly

Nodular fasciitis: a comprehensive, time-correlated investigation of 17 cases

MODERN PATHOLOGY 34 : 12 pp. 2192-2199. , 8 p. (2021)

[🔗](#) DOI WoS Scopus PubMed

Szakkikk (Folyóiratcikk) | Tudományos

[32127306] [Egyeztetett]

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.



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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

<https://aiamdi.uni-obuda.hu/en/degree-procedure/>



Application Form

A completed application form is required.



Absolutorium

Certificate of completion of at least 240 credits.



Dissertation

Core content should be max. 100 pages, total max. 140.



Thesis Booklet

Summary with a defined structure is needed.



CV and Publications

CV and list of publications in MTMT format.



Publication Copies

Copies of publications related to your theses.



Proof of Payment

Proof of payment for the procedure fee.



Co-author Declarations

Declarations from co-authors are required.



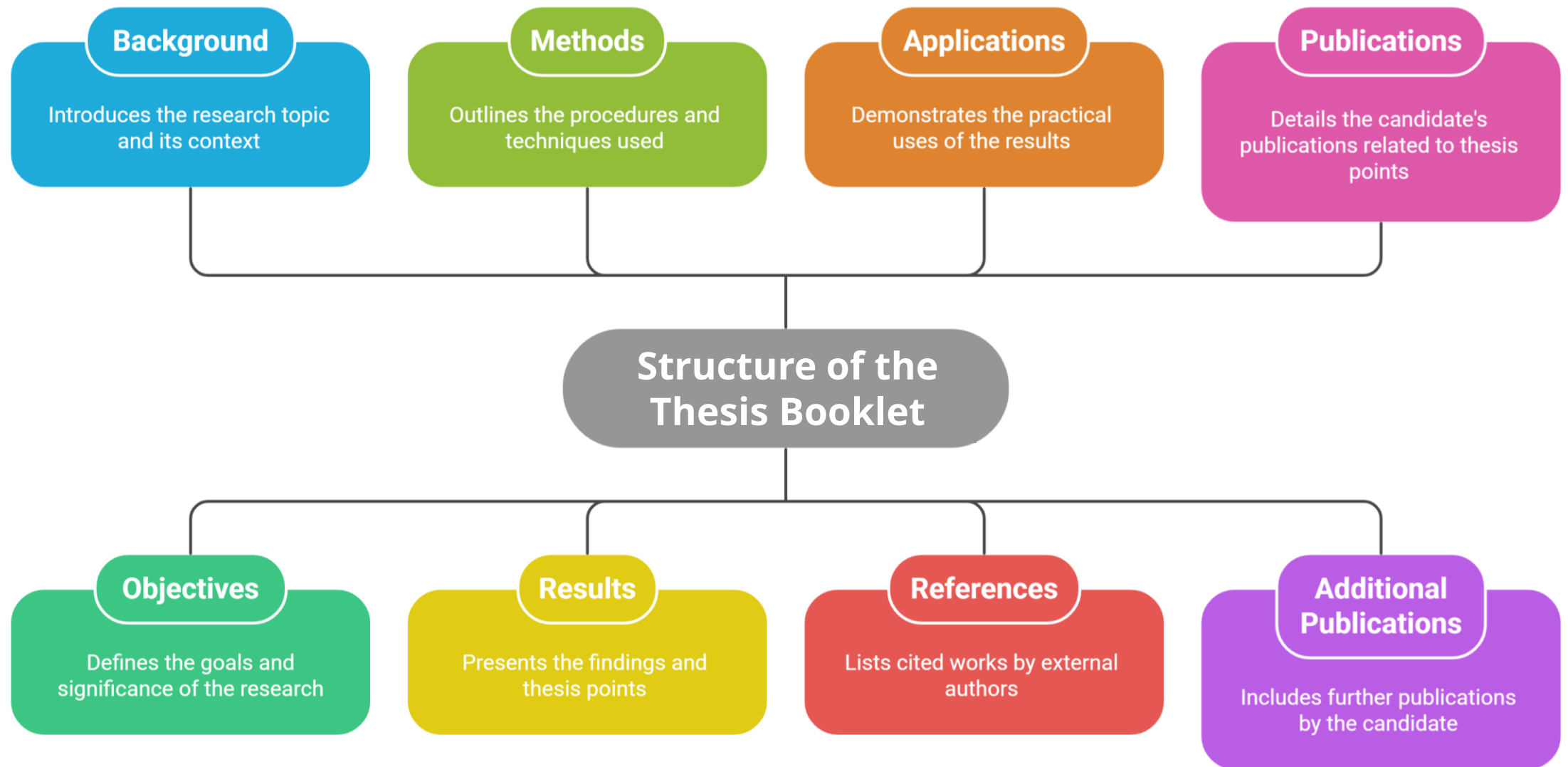
Independent Work Declaration

Declaration on independent work is needed.

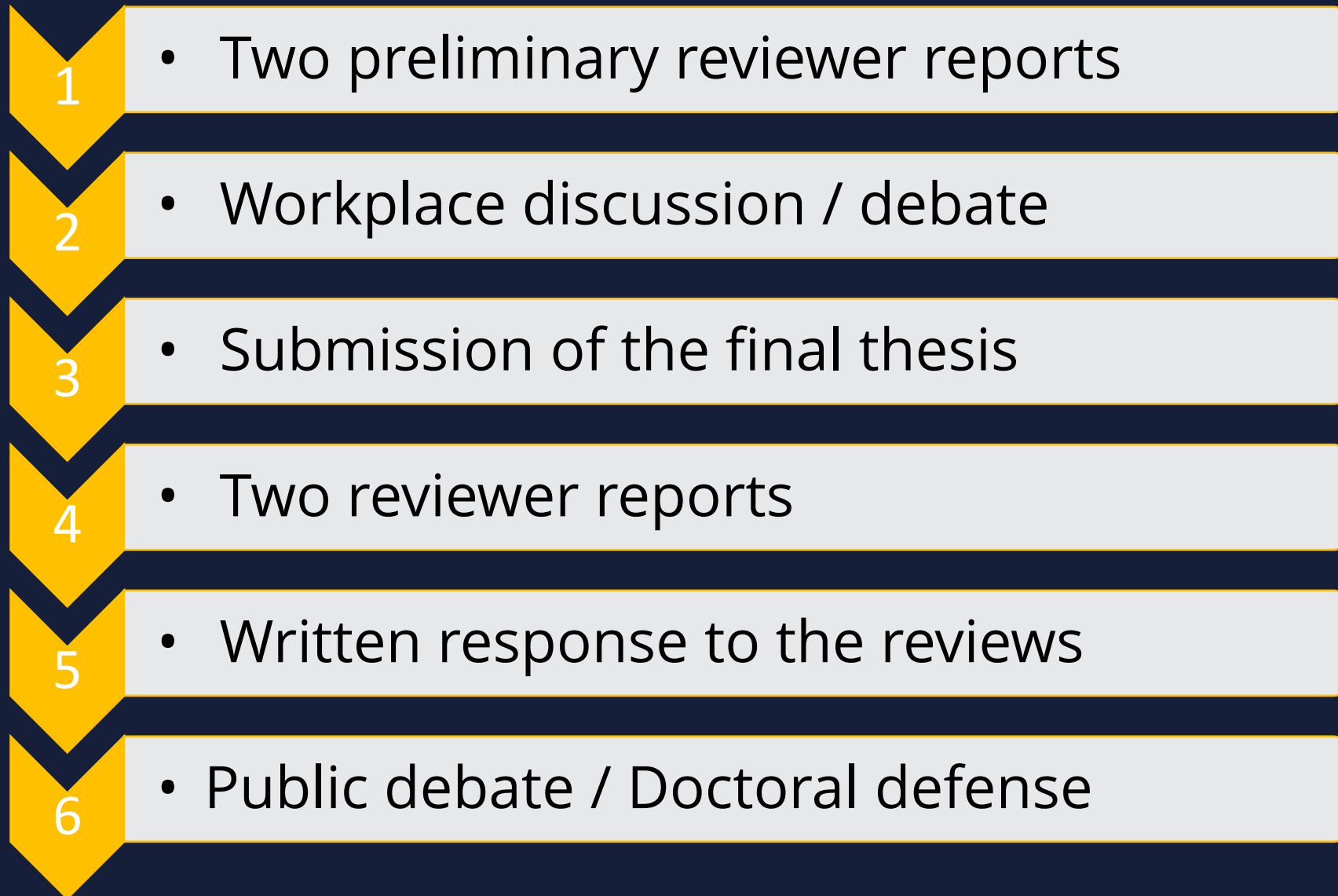


Public Disclosure Declaration

Declaration on public disclosure is required.



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.





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Thank you for your attention!