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Information Literacy in the Age of AI: The Experience of VILNIUS TECH Library



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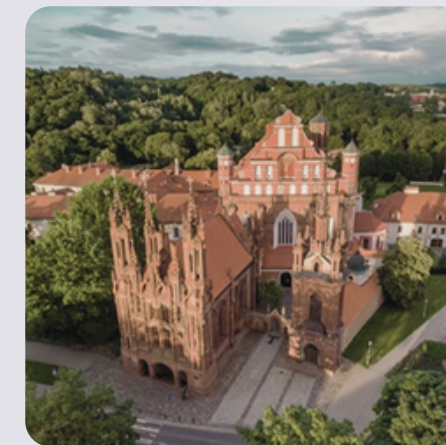
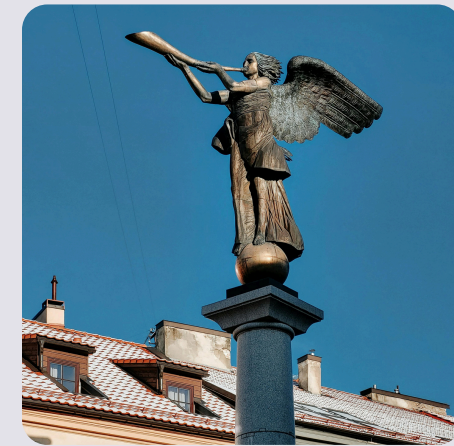
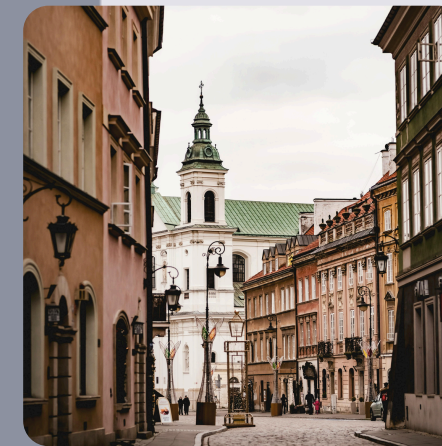
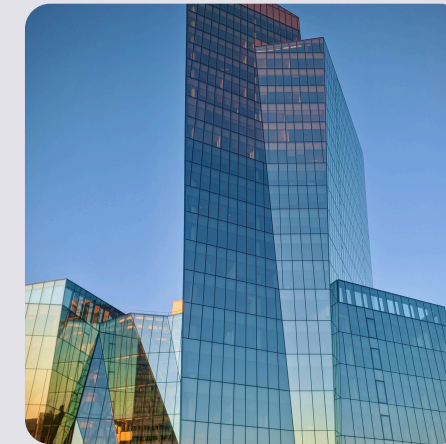
Training and Public Relations Department
VILNIUS TECH Library

Content



- About VILNIUS TECH
- VILNIUS TECH Library
- Information Literacy & Training
- AI in Virtual Library
- AI in Databases
- Challenges & Conclusions

Warm greetings from Vilnius, Lithuania!



- Established in 1956
- 8 600+ students
- 20% of them are international students from over 80 countries
- 940 academic staff members (76% with PhD degrees)
- 89 000 alumni
- 300 business partners worldwide
- 410 partner universities in 60 countries globally
- Member of ATHENA European University Alliance



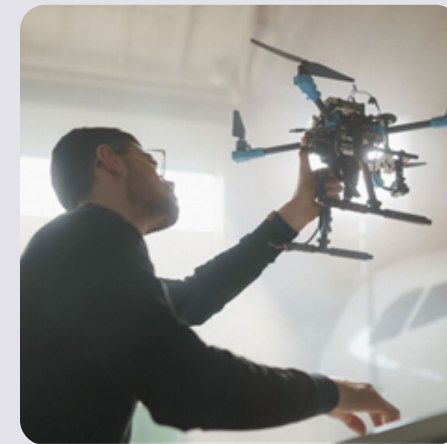
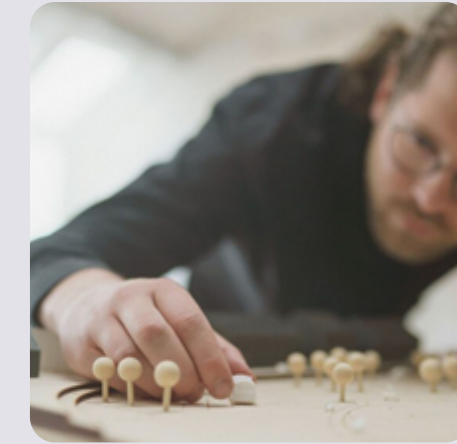
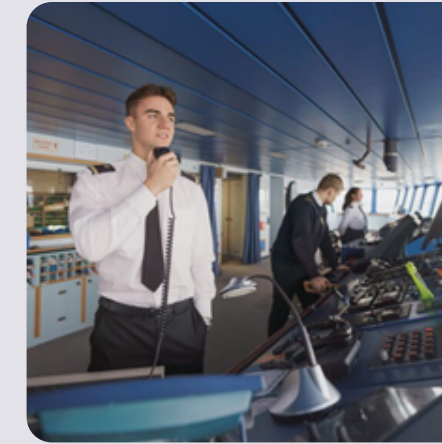
ATHENA
EUROPEAN UNIVERSITY



11 VILNIUS TECH faculties

- Antanas Gustaitis' Aviation Institute
- Architecture
- Business Management
- Civil Engineering
- Creative Industries
- Electronics
- Environmental Engineering
- Fundamental Sciences
- Mechanics
- Transport Engineering
- Lithuanian Maritime Academy

- Technical Creativity and Innovation Center
- Citizen Science Hub
- Civil Engineering Research Centre
- Digital Defense Competence Centre
- Smart and Climate-Neutral Production Processes, Materials and Technologies Competence Centre
- International Relations Office
- Strategic Planning, Quality Management and Analysis Centre
- Creativity and Innovation Centre "Linkmenų fabrikas"
- Center for Strategic Partnership
- Sustainability HUB
- Sports and Arts Center
- Academic Affairs Office
- Admission and Information Centre
- Academic support centre
- International Studies Centre
- Public Communication Office
- Laboratory of Calibration (accredited)
- Laboratory of Environment Protection and Labour Safety
- Road Research Laboratory
- Laboratory of Thermal Insulating Materials and Acoustics
- Laboratory of Composite Materials
- Laboratory of Buildings, Constructions and Materials
- Science and Research Office
- Knowledge and Technology Transfer Centre



VILNIUS TECH Library Statistic



Staff	54
Number of community customers	11 631
Off-line visitors	126 494
Virtual visitors	1 980 239
Work spaces	342
Size	3 000 m ²
Stock titles	98 403
Stock items	361 023
E-journals	31 963
E-books, standards	535 744
Open	24/7



Library Facilities

- Central Library
- 4 Faculty Reading Rooms
- 366 Individual Workspaces
- 7 Reservable Workrooms
- "Gallery A" Art Gallery
- Academic Publishing

- biblioteka.vilniustech.lt
- vb.vilniustech.lt
- ebooks.vilniustech.lt
- eshop.vilniustech.lt
- journals.vilniustech.lt
- bus.vilniustech.lt
- conferences.vilniustech.lt
- cris.vilniustech.lt
- moodle.vilniustech.lt



Resource Overview

- 39 scientific databases
- More than 665 000 titles of printed and electronic information resources
- 2,4 million downloads during last year
- 1 text editing tool (Writefull)



Training and Consultation Statistics



In 2025 – 93 trainings, 1649 participants
In 2024 – 67 trainings, 1282 participants
In 2023 – 80 trainings, 1344 participants
In 2022 – 102 trainings, 1530 participants

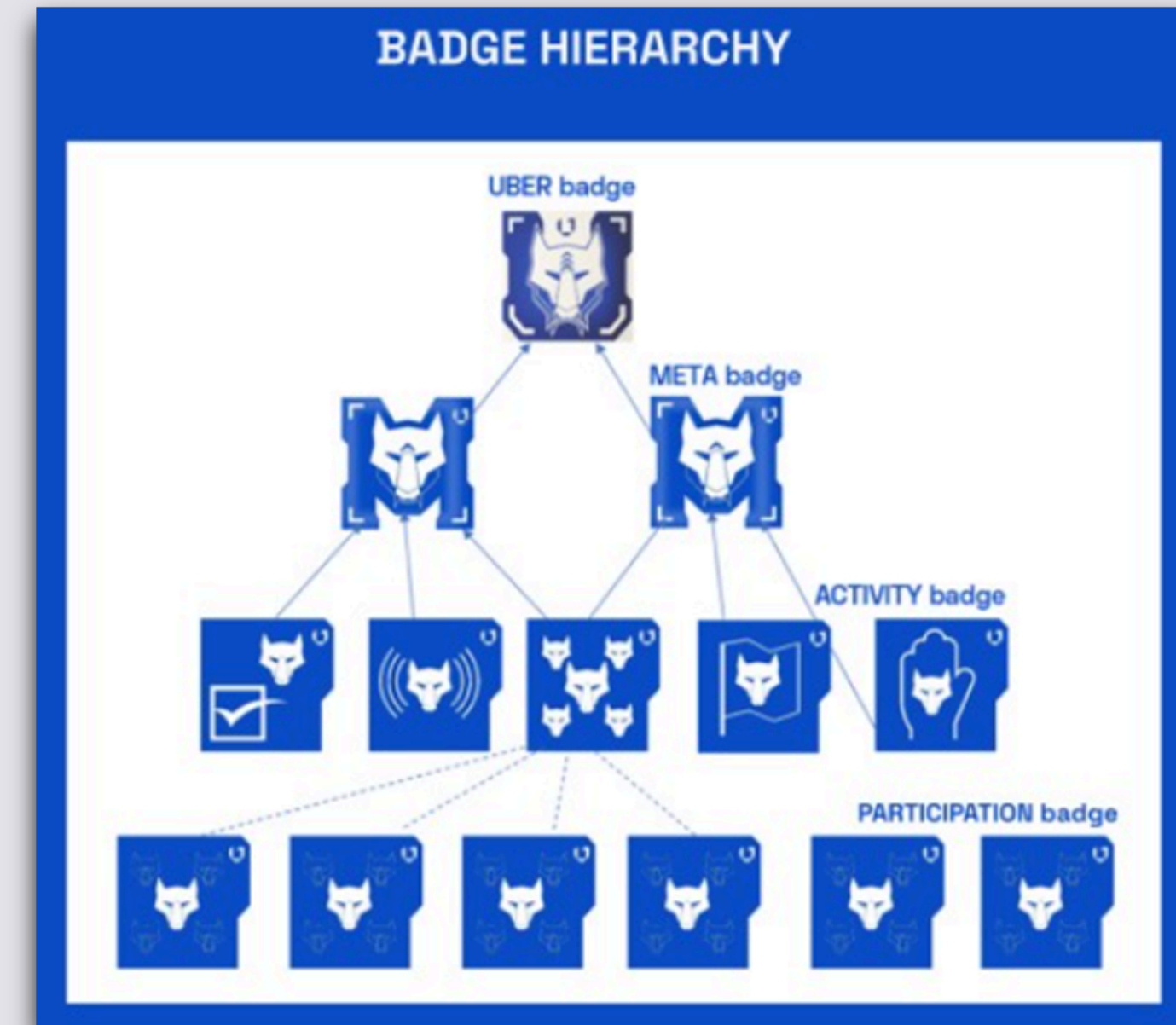
Library e-learning courses were viewed:

In 2025 – 4250 times
In 2024 – 4750 times
In 2023 – 3793 times
In 2022 – 1116 times



Digital Badges System

- Modular tool integrated into library & campus services
- Tracks students' non-formal learning and engagement
- Generates open badges & digital certificates automatically
- Helps library recognise, motivate & showcase active learners
- 200+ activities across 7 thematic programs



⚙️ How: register → scan QR codes → complete tasks → get badge & certificate

Adds value beyond collections: supporting engagement, visibility & lifelong learning

Why AI in Academic Libraries?

New Challenges for Academic Libraries

- Students increasingly use AI tools to begin their research
- Scholarly information is becoming more complex
- Researchers need faster ways to explore academic literature
- Libraries need to support responsible and ethical AI use



Library Training Activities

- Library introduction. Library services 
- Scientific information retrieval 
- Databases for the VILNIUS TECH community 
- Bibliographic databases: Web of Science (WoS) and Scopus 
- Subscribed video databases: OnArchitecture, Visible Body Suite and JoVE
- Subscribed database: Statista
- Subscribed EBSCOhost databases
- Standards: use, search, and citation
- APA 7th edition citation style guide
- Writefull: An English editing tool 
- Mendeley: An information management tool 
- EndNote21: An information management tool
- Copyright, plagiarism and ethical AI use 
- AI assistants in VILNIUS TECH Virtual Library and subscribed databases 
- Subscribed Scopus AI search tool
- Rules for the responsible use of AI in VILNIUS TECH activities 

Training by International Publishers

- [JoVE](#) in teaching and practical training
- [Knovel](#): engineering and technology platform training
- [Scopus](#) analytical tool SciVal trainings
- [OnArchitecture](#): a unique online library of architecture-related videos
- [Visible Body Suite](#) training



AI in Virtual Library

Primo Research Assistant

- AI-powered tool in VILNIUS TECH Virtual Library vb.vilniustech.lt
- Based on Large Language Models (LLM)
- Works with indexed academic sources
- Accessible via institutional login
- Designed for research starting phase

How It Works in Practice:

- Ask a question in natural language
- AI analyzes indexed academic content
- Selects 5 most relevant sources
- Generates summary with references
- Suggests related research questions

The screenshot displays the Primo Research Assistant interface. At the top, the Vilnius Tech Library logo and navigation links for 'RESEARCH ASSISTANT' and 'LIBRARY SEARCH' are visible. The user 'Dubova, Olena' is logged in. The main heading is 'Primo Research Assistant' with the tagline 'Ask research questions. Explore new topics. Discover credible sources.' Below this is a search bar with the placeholder 'What is your research question?' and a dropdown menu set to 'All types' with an 'Available online' checkbox. The search results for the query 'How can we improve diversity in Clinical Trials?' are shown, featuring five sources: 1. BOOK: 'Strategies for Ensuring Diversity, Inclusion, and Meaningful Participation in Clinical Trials' by National Academies of Sciences, Engineering, and Medicine et al. 2016. 2. ARTICLE: 'Clinical Trial Site Perspectives and Practices on Study Participant Diversity and Inclusion' by MacLennan, Demi L. et al. 2023. 3. ARTICLE: 'Enhancing Diversity and Inclusion in Clinical Trials' by Cornell, Amy et al. 2023. 4. ARTICLE: 'Community engagement and clinical trial diversity: Navigating barriers and co-designing solutions—A report from the "Health Equity through Diversity" seminar series' by Reopell, Luiza et al. 2023. 5. ARTICLE: 'Improving Diversity in Clinical Trials by Using Real-world Data to Define Eligibility Criteria' by Royce, Trevor J. et al. 2023. A button 'View related results on your library search' is also present. Below the sources is an 'Overview of sources' section with a summary paragraph and numbered references. At the bottom, a 'Related research questions' section lists three suggestions: 'What strategies have been effective in increasing minority participation in clinical trials?', 'How do socioeconomic factors impact diversity in clinical trial enrollment?', and 'What role do community engagement and outreach play in improving clinical trial diversity?'.

AI vs Advanced Search

	AI-Assisted Search	Exploratory Search	Structured Search
Example	 Primo Research Assistant		Academic databases
Search method	Natural language questions	Keyword search	Boolean / advanced search
Purpose	Quick academic overview	Broad literature search	In-depth research
User effort	Low	Medium	High
Results	Top 5 relevant sources	Large result sets	Precisely filtered results
Best use stage	Starting a topic	Expanding knowledge	Systematic research

AI in Databases



Scopus AI



WOS Research Assistant



EBSCO AI



IEEE Xplore AI Research Suite



JSTOR's AI Research Tool



Ebook Central Research Assistant



Statista Research AI



Ask JoVE

AI Assistant Guidelines

How to Ask Better Questions:

- Clear, specific, academic questions
- Include context (topic, scope, conditions)
- Each question must be independent

Limitations & Responsible Use:

- Based on abstracts, not full texts
- Limited to indexed content (CDI)
- Not all databases included
- Answers may vary
- Requires critical evaluation

AI Assistants do not replace critical thinking or comprehensive literature review, but it is a powerful tool for quickly understanding a topic and effectively starting academic research.

How AI Changes Information Literacy

- Students increasingly use AI tools as a starting point for research
- Search practices are shifting from keywords to natural language questions
- AI enables faster information discovery and exploration
- AI outputs require verification, source checking, and critical evaluation
- Traditional research skills, including database searching, remain important
- Librarians support the development of responsible AI use and AI literacy
- Future information literacy combines human expertise with AI capabilities



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