2025 European Quality Assurance Forum

QA in times of crises – Ensuring stability, autonomy and international cooperation in higher education

Hosted by Corvinus University of Budapest, Hungary
12-14 November 2025

ISSN: 1375-3797

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Paper

Title: Anticipating Change: Designing AI-Ready QA Systems for Future-Proof Universities

Abstract

As digital transformation accelerates, quality assurance (QA) must evolve from a reactive function to a proactive system capable of guiding institutions through AI-driven disruption. This paper explores how QA frameworks can shape the future of higher education by ensuring that AI technologies enhance rather than erode academic quality, learning equity, and institutional trust. We present a European-wide landscape of emerging QA practices related to AI integration and introduce a pilot case study from a Georgian university deploying AI-powered tools in QA processes. These include automated student feedback analysis, curriculum relevance mapping using machine learning, and detection of bias in digital assessments. The case is analyzed through the lens of ethics, transferability, and long-term institutional sustainability. The paper proposes a draft framework of "AI-readiness indicators" for QA systems that can be adapted across national contexts. These indicators address algorithmic transparency, academic oversight, participatory QA mechanisms, and digital inclusion. By combining policy insight and field-level experimentation, the session aims to equip participants with strategic tools to navigate digital disruption while preserving academic integrity. The discussion invites QA professionals and institutional leaders to reflect on how QA can evolve into a forward-looking, ethical, and resilient compass in the AI era.

1. Introduction: From Reactive QA to AI-Ready Systems

Higher education is undergoing an era of unprecedented technological acceleration, driven by Artificial Intelligence (AI), and particularly Generative AI (GAI). Institutional processes- including teaching, assessment, governance, and student services-are transforming at a pace far exceeding the adaptive capacity of traditional quality assurance (QA) frameworks. Historically, QA has been predominantly retrospective, focusing on compliance with predefined standards and evaluation of existing practices (Harvey & Williams, 2020). While such approaches have ensured baseline accountability, they are insufficient for managing dynamic, AI-driven educational environments.

AI introduces considerable opportunities for QA, including real-time analytics, automated evidence collection, anomaly detection, predictive insights for curriculum alignment, and enhanced student support. Simultaneously, unmanaged AI adoption poses significant risks: threats to academic integrity, algorithmic opacity, inequities in access and opportunity, and potential erosion of institutional autonomy (Seldon & Abidoye, 2023).

This paper argues that QA must become the proactive governance system guiding universities into the AI era, ensuring that technology enhances rather than erodes education quality and equity. We propose:

1. Integration of international AI policy frameworks into QA governance
2. Stakeholder-driven oversight and shared responsibility
3. University-wide GAI literacy programs aligned with values and learning outcomes
4. A Responsible AI Citizenship Handbook
5. AI-readiness indicators for sustainable QA transformation

The analysis draws on a European landscape review and a case study of a private university in Georgia, which has begun integrating AI into its QA ecosystem.

2. International Policy Frameworks: Aligning QA with AI Governance

While institutional AI adoption is rapid, policy has lagged. QA systems can provide the missing bridge between high-level AI regulation and university practice, ensuring that governance follows ethical and legal expectations.

European and Global Frameworks Relevant to QA

Framework	QA-Relevant Provisions	Operational QA Alignment
EU AI Act (2024)	Risk classification, human oversight, transparency duties, data quality	Annual algorithmic impact assessments; mandatory human sign-off in assessments
UNESCO AI Ethics (2021)	Human dignity, accountability, inclusivity, IP recognition	Institutional AI codes; integration into curricula and research guidance
Council of Europe Digital Education Framework (2022)	Digital citizenship, learner rights, safety	QA audits of digital literacy and inclusion programs
ENQA ESG (2015)	Stakeholder engagement, evidence reliability, academic integrity	Annual QA methodology audit; student-staff feedback loops

These frameworks converge on several principles: transparency, accountability, fairness, and accessibility - elements already central to QA but requiring new operational interpretations in AI contexts.

Policy ➡ QA Integration Mechanisms

1. Institutional AI Strategy as a QA standard Part of governance, not an optional add-on.
2. Algorithmic impact assessments for all AI tools used in learning and evaluation.
3. Ethics and data governance audits aligned with accreditation cycles.
4. Academic oversight mandates to ensure humans remain accountable for final decisions.

QA must ensure that institutional adoption of GAI adheres not only to compliance obligations but to education's core values.

3. Principles for AI-Ready QA Systems

Based on policy alignment and global best practices, AI-ready QA systems should operate under seven core principles:

1. Proactivity – Anticipating disruption, guiding innovation rather than reacting post-factum.
2. Transparency – Clear information on AI tools, data logic, and decision-making criteria.
3. Academic Ownership – Faculty retain authority over curriculum design, pedagogy, and assessment.
4. Ethical Reliability – Mechanisms to detect and prevent bias and inequitable outcomes.
5. Inclusiveness & Accessibility – Ensure universal access to AI tools and pedagogical resources.
6. Continuous Improvement – Iterative monitoring, model updating, and responsiveness to emergent challenges.

7. Participatory Governance – Engage students, staff, and external stakeholders in decision-making processes.

These principles constitute a values-driven compass for future QA.

4. Case Study: AI-Supported QA at a Private University in Georgia

This case study examines the practical implementation of Artificial Intelligence (AI) in quality assurance (QA) processes at a university in Georgia. The initiative represents a pilot approach to leveraging AI to enhance educational quality, support curriculum development, and foster student success. Although situated in a Georgian context, the pilot's governance design follows European QA standards, making it replicable across higher-education systems. Three AI-powered tools form the core of this initiative:

Tool	QA Function	Status	KPI
Automated Student Feedback Analysis	Rapid identification of trends in satisfaction, engagement, and learning challenges	Pilot completed	Feedback cycle reduced from 90 → 5 days
Curriculum Relevance Mapping (Machine Learning + Labour Market Data)	Align program outcomes with emerging skills and labour market trends	Ongoing	15% of programs updated proactively based on AI insights
AI Mentor/Assistant	Personalized guidance for academic adaptation	Early testing	Student engagement index increase ≥10%

Implementation Considerations:

Challenge	QA Implication	Institutional Response	KPI / Early Warning
Digital skills gap	Risk of misinterpretation or underutilization of AI outputs	AI literacy workshops; CPD for staff	% staff trained; <5% misinterpretation incidents
Vendor opacity	Difficulty ensuring fairness, validity, and accountability	Mandated algorithmic documentation	Compliance audits per semester
Cultural resistance	Fear of automation replacing human judgment	Ethics & Oversight Committee	Staff adoption & trust survey
Data protection	GDPR-equivalent compliance required	Localized data handling protocols	0 breaches; annual data audit
Equity & accessibility	Disadvantaged students may be left behind	Provision of hardware/software; adaptive interfaces	Access parity index ≥95%

Preliminary Outcomes

Preliminary observations from the pilot initiative indicate several significant benefits of AI integration in QA:

1. Accelerated QA Evidence Cycles – Feedback analysis processing time reduced from months to days.
2. Enhanced Curriculum Responsiveness – Machine learning insights enable timely adjustments.
3. Strengthened Student Engagement – AI-assisted mentoring amplifies student voice.
4. Emerging Research Opportunities – Opens applied research avenues in AI-enhanced QA.

This case underscores that responsible AI adoption can significantly enhance institutional QA processes while simultaneously supporting student academic development. Crucially, successful implementation is contingent upon the presence of clear governance structures, ethical oversight, and shared responsibility among academic leadership, faculty, and students. AI's role in this context is not to replace human judgment but to augment institutional capacity, accelerate evidence-based decision-making, and foster equitable educational outcomes.

5. Stakeholder Engagement & Shared Accountability

Effective AI-QA adoption depends on multi-level responsibility:

Stakeholder	**Responsibility**	**Role in AI-QA**
Institutional leadership	Strategy, resources, risk governance	Oversight of AI adoption
QA office	Methodology, compliance	QA metric design & monitoring
Academic departments	Pedagogical redesign	Align learning outcomes with AI adoption
Students	Feedback, integrity co-creation	Participatory QA & monitoring
IT/Data governance	Cybersecurity, vendor oversight	Safe and compliant AI deployment
External QA agencies	Accreditation & benchmarking	AI-readiness assessment

Such shared accountability ensures that QA remains a collective, value-driven process rather than a purely technical one.

6. Proactive GAI Adoption: Literacy, Values, and Critical Skills

Universities must balance innovation with academic integrity. The shift is not about forbidding GAI but teaching students how to use it responsibly and critically. GAI adoption should cultivate responsible, critical, and creative engagement, structured around five pillars:

1. Technical Understanding – Operation of generative models and their limitations.
2. Legal & Ethical Frameworks – Citation, authorship, and IP rights.
3. Bias & Misinformation Awareness – Evaluating AI outputs critically.
4. Creative & Analytical Augmentation – Using AI as a co-creation tool.
5. Disciplinary Alignment – Tasks and assessments reflecting responsible AI use.

Example Assessment Strategies:

- Critique AI-generated literature review
- Reflection logs documenting AI usage
- Group co-creation projects with explicit attribution

This ensures GAI reinforces skill development rather than undermines it.

7. Responsible AI Citizenship Handbook

A cornerstone of proactive readiness is the creation of a university-level handbook codifying responsible GAI use. This includes:

7.1 Methodology for GAI Use in Learning and Research

Requirement	Example
Explicit attribution	Statements disclosing use of tools like ChatGPT with description of contribution
Accuracy verification	Mandatory fact-checking and source validation on AI-generated content
Academic integrity compliance	Prohibiting fully AI-generated assessments submitted as original work
Human guidance and final accountability	Instructor must approve AI-based research methods

7.2 Limitations and "No-Go" Examples

- Generating personal data about real individuals
- AI-written citations or fabricated sources
- Use of AI tools prohibited in confidential or secure examination settings
- Overreliance that prevents development of core knowledge or skills

7.3 Accessibility and Inclusion

- AI tools must be available to all, not only to those who can afford premium versions
- Interfaces compatible with assistive technologies (screen readers, diverse input modalities)
- Training tailored for students with different digital competencies

Accessible AI use is framed as a right within the right to education.

8. AI-Readiness Indicators for QA Ecosystems

We propose a structured indicator framework that QA bodies and institutions can adopt:

Category 1: Transparency & Accountability

- Documentation of AI algorithm logic and learning data
- Public availability of institutional AI policy

Category 2: Academic Oversight & Pedagogical Integrity

- Curricular alignment reviewed at least annually
- Human responsibility ensured in all assessment decisions

Category 3: Inclusivity & Digital Equity

- Universal access to approved GAI tools
- Monitoring equity gaps through usage analytics

Category 4: Ethics & Data Protection

- AI risk assessments for high-impact tools
- Independent ethical review as QA evidence

Category 5: Responsiveness & Sustainability

- Mechanisms for continuous improvement of models
- Vendor accountability and procurement standards
- Professional development requirements for academic staff

Together, these support evidence-based evolution of QA policies.

8.1.AI-Readiness Indicators & KPI-Driven Risk Management Framework

Category	KPI	Early Warning Indicator	Mitigation Roadmap
Transparency & Accountability	% AI tools documented	Missing documentation	Vendor reporting; internal audit
Academic Oversight	% assessments with human sign-off	>5% assessments AI-only	Mandatory review
Inclusivity & Digital Equity	Access parity index	Students without access >5%	Hardware/software provision
Ethics & Data Protection	# of audits completed	Data breaches	Independent ethical review
Responsiveness & Sustainability	Model update cycle adherence	Delayed updates	Scheduled updates; staff CPD

9. Recommendations for Stakeholders

Universities:

- Establish AI governance boards with student representation
- Integrate AI ethics and literacy in all programs
- Mandate vendor transparency and compliance

QA Agencies:

- Include AI-readiness indicators in accreditation frameworks
- Support cross-institutional policy learning

Policymakers:

- Provide clarity on AI authorship, data rights, and accountability
- Fund AI-QA research, especially for smaller institutions

10. Conclusion

AI is transforming higher education at an unprecedented pace. If unmanaged, it can disrupt educational values, exacerbate inequalities, and reduce trust. Proactive QA systems- grounded in transparency, accountability, inclusivity, and continuous improvement- can harness AI as a catalyst for quality enhancement, improving evidence collection, amplifying student voice, and supporting academic development. Future-proof universities embed responsibility, foresight, and shared accountability into governance. Aligned policy frameworks, stakeholder engagement, structured KPIs, AI literacy programs, and Responsible AI Citizenship Handbooks ensure QA leads, rather than follows, the AI-driven digital transition.

Acknowledgments

The authors wish to acknowledge the use of ChatGPT (OpenAI, 2025, GPT-4) for language clarity, organization of ideas, and formatting suggestions. All content, analysis, and interpretations presented in this paper remain the sole responsibility of the authors.

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