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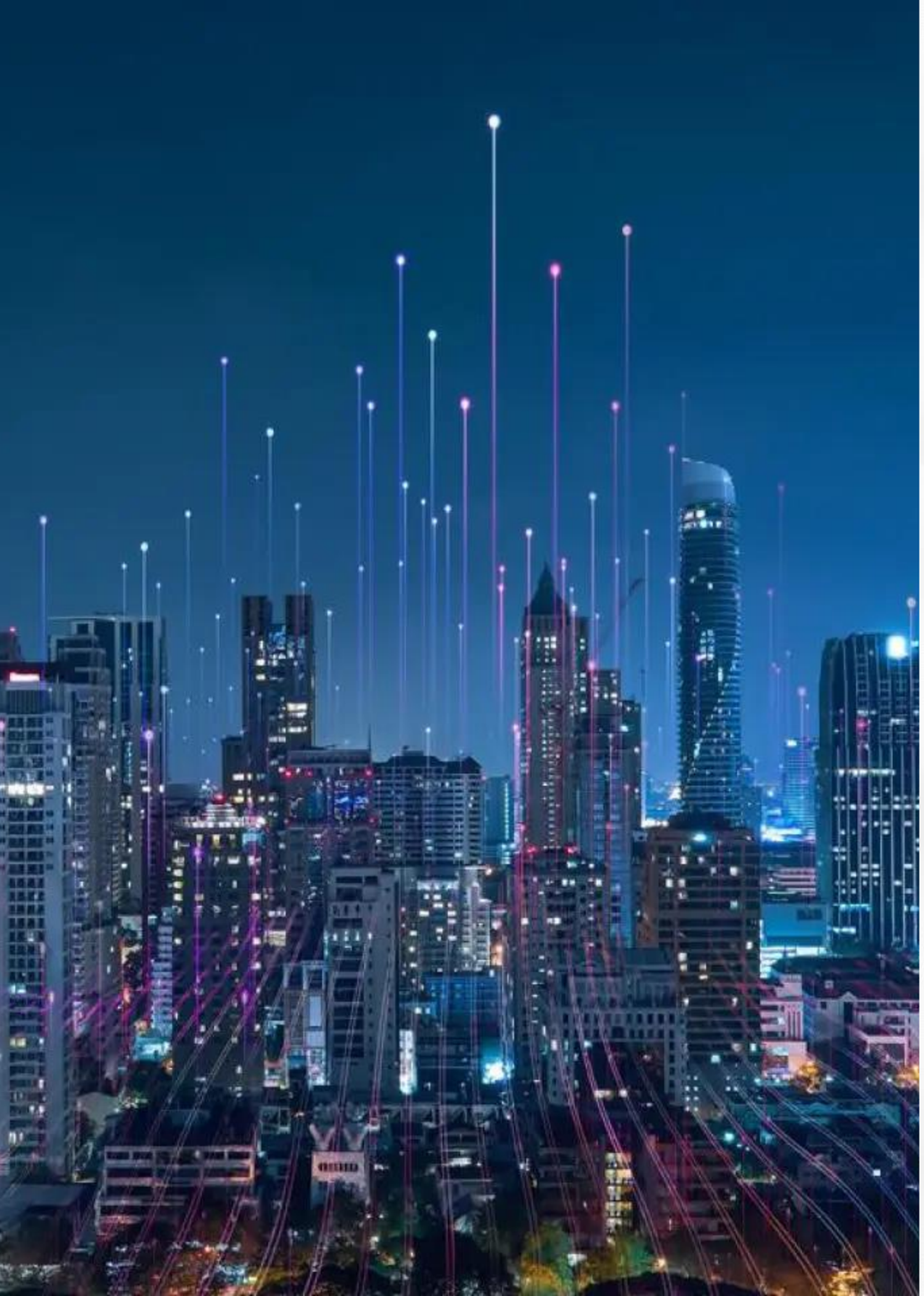
Integración de la IA Generativa en el aula universitaria: estrategias prácticas para docentes

SAPiA
Sección de Articulación y Promoción de la Inteligencia Artificial en la Academia



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Generative AI Integrity in Classrooms

A guide for university teachers to uphold academic honesty with practical AI strategies

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01 DEFINING AI INTEGRITY

ESTABLISHES FOUNDATIONAL STANDARDS FOR ETHICAL AI USE IN ACADEMIC SETTINGS

CORE PRINCIPLES OF AI INTEGRITY

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Outlines fundamental values guiding responsible AI integration in classrooms

01

Transparency: Require clear disclosure of AI tools used in assignments to maintain trust.

02

Accountability: Ensure students take ownership of work, even with AI assistance.

03

Equity: Design AI policies that do not disadvantage students with limited access.

04

Ethical Alignment: Align AI use with institutional academic honesty codes.

ACADEMIC HONESTY BOUNDARIES

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Clarifies where AI use crosses into academic misconduct in university contexts

01

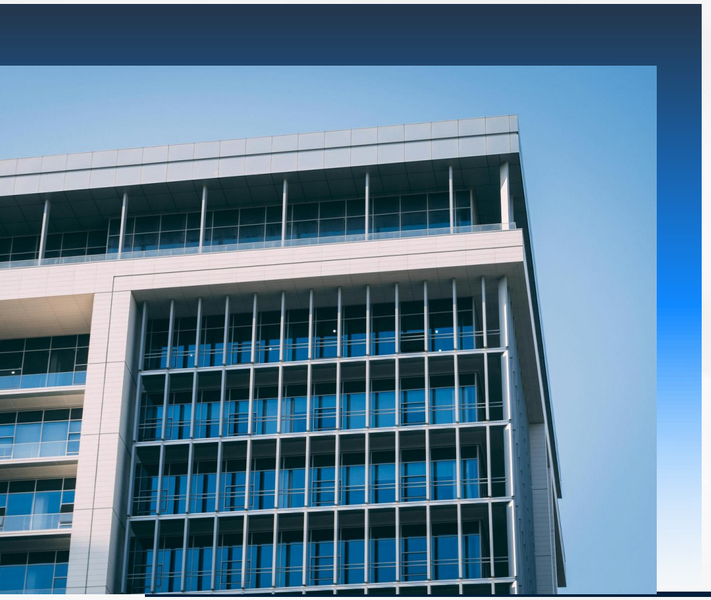
Prohibited AI Use:
Define cases like full AI-generated essays without attribution.

02

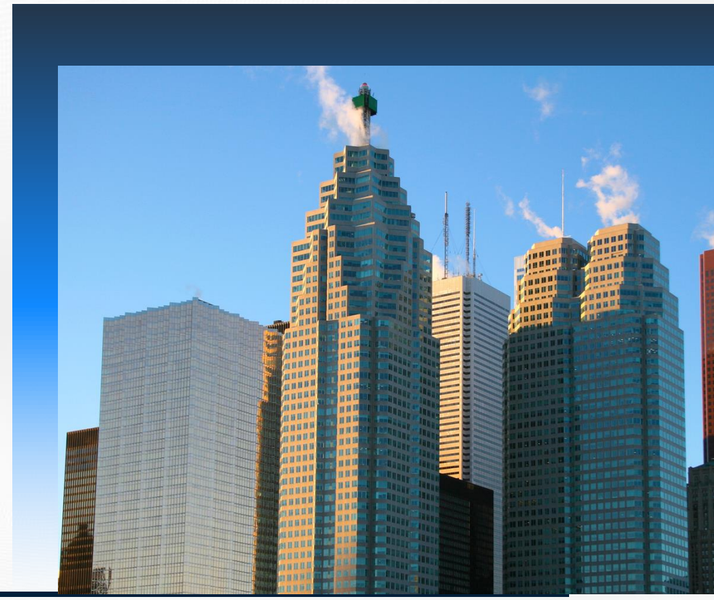
Gray Area Guidance:
Address partial AI use (e.g., editing drafts) with clear rules.

03

Consequence Framework:
Outline disciplinary actions for AI-related misconduct.



AI USE POLICY FRAMEWORK



Provides a structured approach to creating institutional AI guidelines

Stakeholder Collaboration:
Involve faculty, students, and admins in policy development.

Tool-Specific Rules:
Tailor policies to common AI tools (ChatGPT, DALL-E) with examples.

Accessibility Provisions:
Ensure policies accommodate students with disabilities.

Legal Compliance:
Align policies with copyright and data privacy regulations.

Student-AI Interaction Norms

Sets expectations for how students should engage with AI tools ethically

Purposeful Use: Encourage AI as a learning aid, not a substitute for critical thinking.

Documentation Requirement: Mandate logs of AI interactions for assignment submissions.

Peer Accountability: Foster a culture where students report unethical AI use responsibly.

02

DESIGNING AI-RESILIENT ASSESSMENTS

EQUIPS TEACHERS TO CREATE ASSESSMENTS RESISTANT TO AI-DRIVEN ACADEMIC DISHONESTY

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AUTHENTIC, CONTEXTUAL TASKS

Focuses on real-world, discipline-specific assignments that AI cannot easily replicate

01

Discipline-Specific Scenarios:
Use case studies tied to fieldwork or lab experiments.

02

Personalized Projects:
Assign tasks requiring unique student experiences or perspectives.

03

Collaborative Problem-Solving:
Design group tasks that demand in-person interaction.

MULTI-STAGE ASSESSMENT DESIGN

Breaks assignments into phases to track student progress and deter AI misuse

Proposal Submission:

Require initial outlines or drafts to establish baseline work.

Milestone Check-Ins:

Schedule regular reviews to monitor incremental progress.

Final Reflection:

Ask students to explain their process and AI use (if any).

Cross-Reference Phases:

Compare early drafts with final work to detect inconsistencies.

ORAL DEFENSE INTEGRATION

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Adds verbal assessment components to validate student understanding of work

01

Spontaneous Q&A:
Pose questions about assignment details to test depth of knowledge.

02

Process Walkthrough:
Have students explain how they arrived at conclusions.

03

Live Problem-Solving:
Ask students to solve related tasks in real time during defenses.

PROCESS-FOCUSED EVALUATION

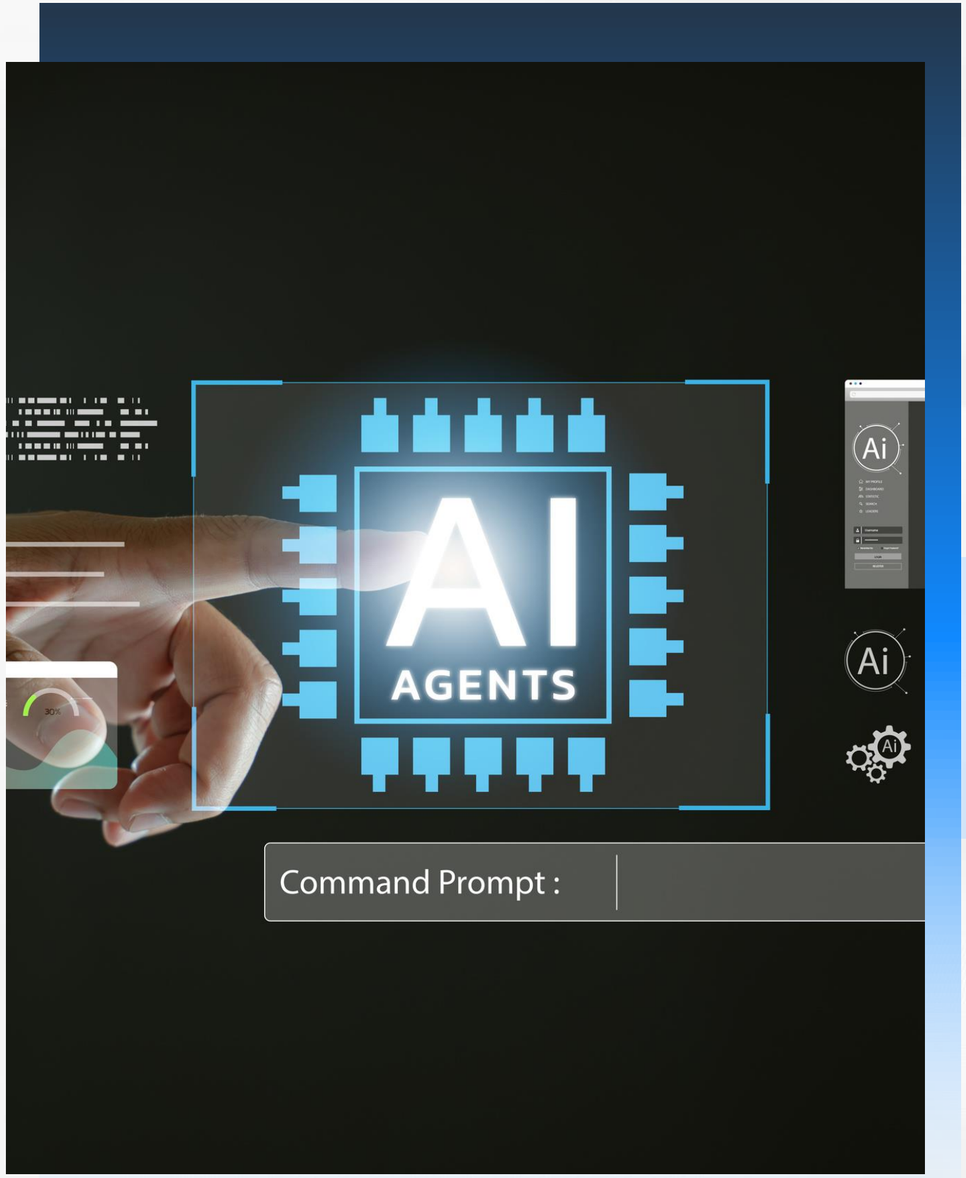
Shifts grading emphasis from final products to the steps taken to complete work

01 Draft Submission:
Grade intermediate drafts to reward effort and improvement.

02 Research Logs:
Require documentation of sources, AI tools, and decision-making.

03 Reflection Essays:
Assign written reflections on challenges and learning outcomes.

04 Peer Feedback:
Incorporate student reviews of each other's process documentation.



03 TEACHING AI ETHICS EXPLICITLY

INTEGRATES AI ETHICS EDUCATION INTO CURRICULA TO FOSTER RESPONSIBLE STUDENT BEHAVIOR

AI PLAGIARISM AWARENESS

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Educates students on how AI use can lead to plagiarism and academic misconduct

01

AI Plagiarism Examples:
Show cases of AI-generated content passing as original work.

02

Detection Methods:
Explain how institutions identify AI misuse in assignments.

03

Consequence Discussions:
Highlight disciplinary outcomes of AI-related plagiarism.

ETHICAL AI USE CASE STUDIES

Uses real-world examples to illustrate responsible and unethical AI application

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Academic Case Studies:
Analyze instances of AI misuse in university assignments.

01

Professional Scenarios:
Explore ethical AI use in fields like journalism or healthcare.

02

Professional Scenarios:
Explore ethical AI use in fields like journalism or healthcare.

03

Debates:
Organize discussions on ethical dilemmas (e.g., AI in exam preparation).

04

CITATION OF AI ASSISTANCE

Teaches students how to properly attribute AI tools in their academic work

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01. Citation Guidelines:

Provide templates for citing AI tools (e.g., ChatGPT prompts).

02. Documentation Examples:

Show sample papers with correct AI attribution.

03. Tool-Specific Rules:

Adapt citation styles for different AI platforms (text vs. visual).

04. Peer Review Checks:

Include AI citation verification in peer assessment tasks.

CRITICAL AI LITERACY WORKSHOPS

Builds students' ability to evaluate AI outputs for accuracy and bias

Output Evaluation:

Teach students to cross-check AI information against credible sources.

Limitation Awareness:

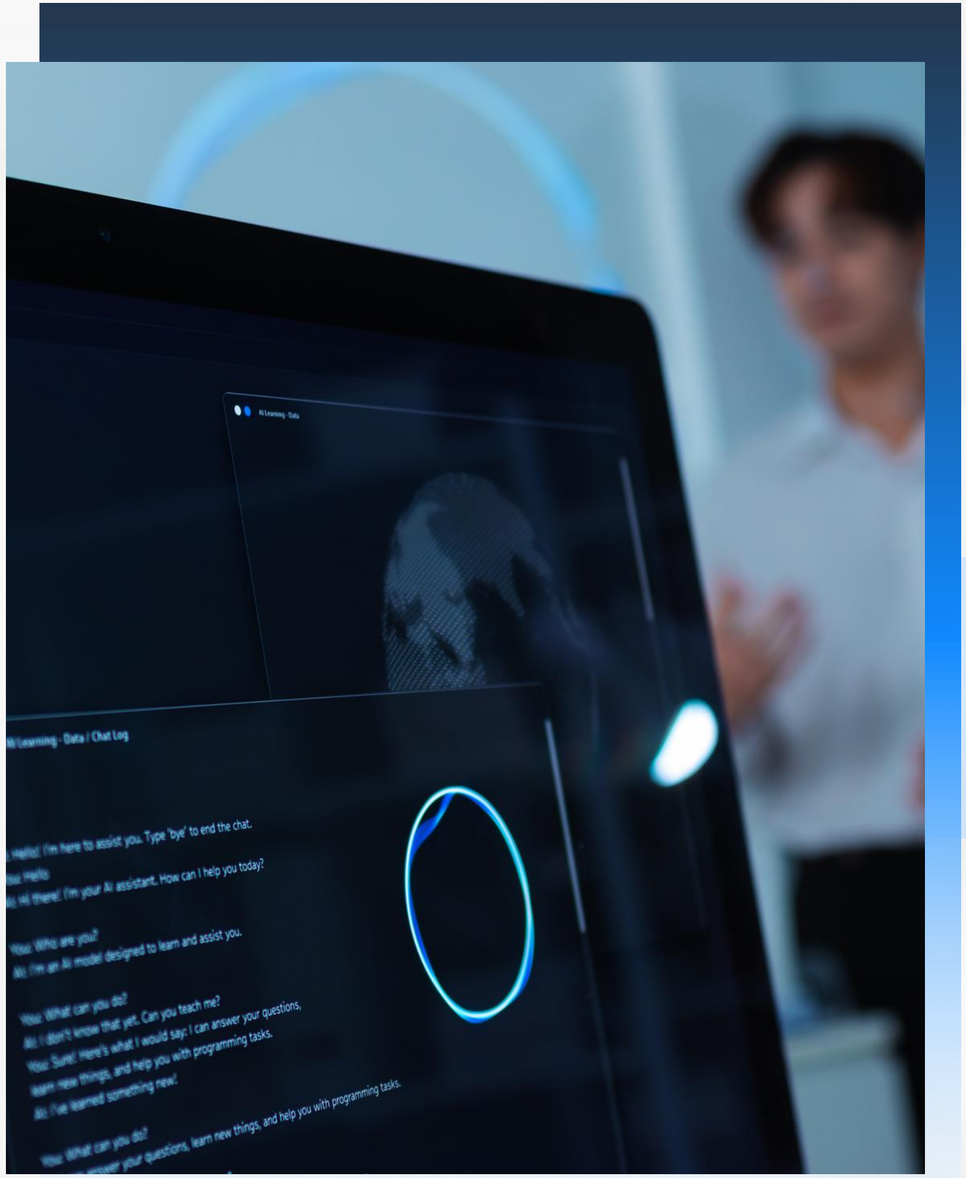
Highlight AI's weaknesses (e.g., factual errors, outdated data).

Bias Detection:

Train students to identify algorithmic biases in AI-generated content.

Hands-On Practice:

Guide students to edit and improve AI outputs for academic use.



04 IMPLEMENTING DETECTION TOOLS

GUIDES TEACHERS IN SELECTING AND USING AI DETECTION TOOLS EFFECTIVELY

AI CONTENT DETECTOR SELECTION

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Helps teachers choose tools aligned with institutional needs and accuracy standards

Accuracy Testing: Evaluate tools against known AI-generated and human-written content.

Tool Features: Compare detection capabilities (text, code, visual content) across platforms.

Cost Considerations: Assess free vs. paid tools for scalability and support.

Integration Compatibility: Ensure tools work with existing LMS platforms (e.g., Canvas).

ETHICAL AI USE CASE STUDIES

Uses real-world examples to illustrate responsible and unethical AI application

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01

LMS Integration:
Embed detection tools into assignment submission workflows.

02

Multi-Tool Validation:
Use 2-3 tools to cross-verify results and reduce false positives.

03

Data Syncing:
Ensure detection data is linked to student records for tracking.

04

Automated Alerts:
Set up notifications for potential AI misuse in submissions

DETECTION RESULT VERIFICATION

Provides steps to confirm AI detection results before taking disciplinary action

Manual Review:
Compare flagged content with student's past work to check consistency.

Student Interview:
Ask students to explain their assignment process and AI use.

Expert Consultation:
Collaborate with IT or academic integrity teams for second opinions.

AI CONTENT DETECTOR SELECTION

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Helps teachers choose tools aligned with institutional needs and accuracy standards

Policy Disclosure:
Share detection methods and tool names in course syllabi.

Privacy Protection:
Explain how student data is handled by detection tools.

Appeal Process:
Outline steps for students to contest detection results.

Regular Updates:
Inform students of changes to detection tools or policies.

05

FOSTERING OPEN COMMUNICATION

ENCOURAGES DIALOGUE BETWEEN TEACHERS AND STUDENTS ABOUT AI USE AND INTEGRITY

AI USE DISCLOSURE GUIDELINES

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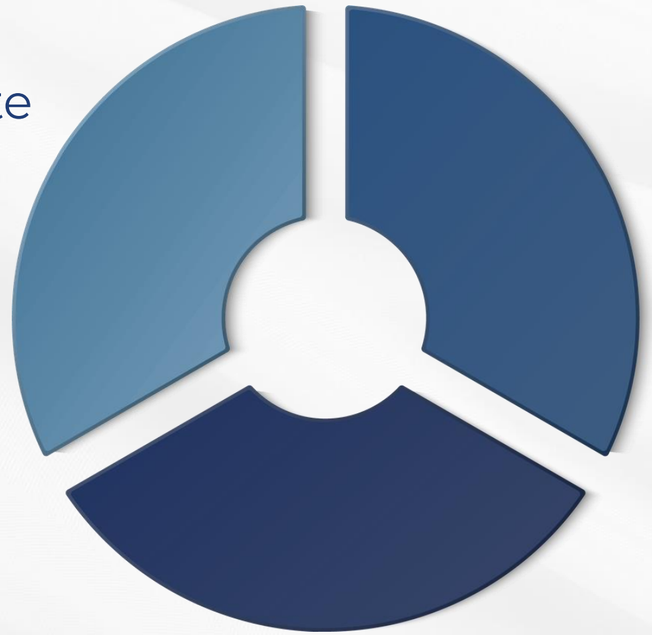
Helps teachers choose tools aligned with institutional needs and accuracy standards

Mandatory Disclosure:
Require students to note AI use in assignment cover pages.



Disclosure Templates:
Provide forms to detail AI tools, prompts, and edits made.

No-Penalty Disclosure:
Assure students that honest disclosure avoids misconduct charges.

STUDENT FEEDBACK CHANNELS

Creates avenues for students to share concerns and suggestions about AI policies

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Anonymous Surveys: Use tools like Google Forms to collect feedback on AI guidelines.

Focus Groups: Host small discussions to explore student perspectives on AI use.

Office Hours: Dedicate time to address AI-related questions and concerns.

Feedback Loops: Implement student suggestions to refine AI policies and assessments.

COLLABORATIVE AIUSE AGREEMENTS

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Involves students in creating class-specific rules for responsible AI use

01

Co-Creation Workshops:
Collaborate with students to draft AI use agreements.

Agreement Sign-Off:
Have students sign the agreement to acknowledge understanding.

02

03

Agreement Reviews:
Revisit agreements mid-semester to address emerging issues.

COLLABORATIVE AIUSE AGREEMENTS

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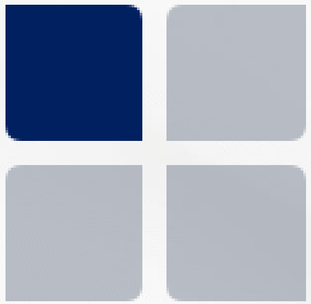
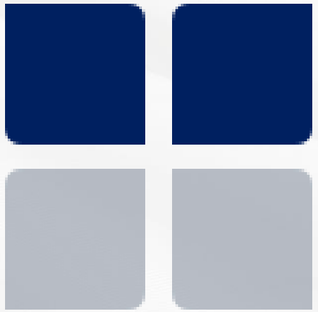
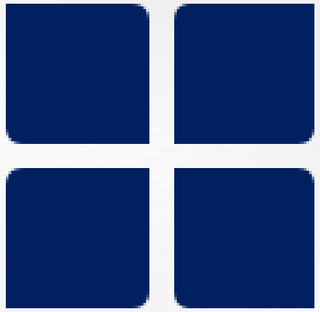


Quarterly Reviews:
Assess policy effectiveness and update based on new AI tools.

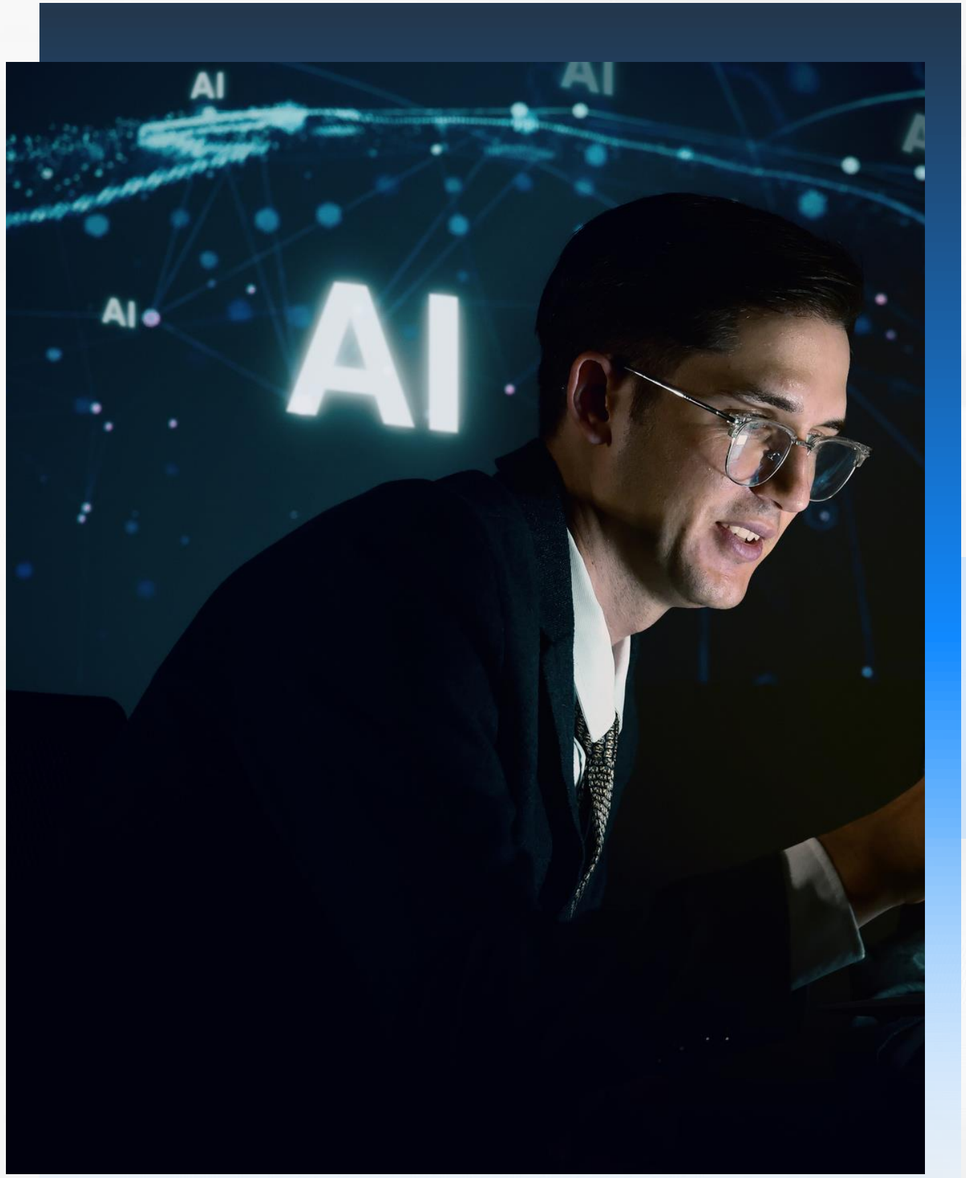


Student Input:
Incorporate feedback from surveys and focus groups into updates.

Faculty Training:
Inform teachers of policy changes through workshops or emails.



Syllabus Updates:
Revise course syllabi each semester to reflect current policies.



06 TRAINING FOR EDUCATORS

BUILDS TEACHERS' CAPACITY TO MANAGE AI IN CLASSROOMS AND UPHOLD INTEGRITY

AI TOOL PROFICIENCY WORKSHOPS

Teaches educators to use common AI tools and understand their capabilities

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Hands-On Practice:
Guide teachers to test AI tools (ChatGPT, MidJourney) for assignments.

Integration Strategies:
Share ways to use AI as a teaching aid (e.g., generating examples).

Tool Limitations:
Highlight AI's weaknesses (e.g., factual errors, bias) in academic contexts.

Safety Protocols:
Train teachers to avoid sharing sensitive data with AI tools.

INTEGRITY STRATEGY PEER SHARING

Creates a community for teachers to exchange AI integrity best practices

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01 **Peer Workshops:** Organize sessions where teachers share successful assessment designs.

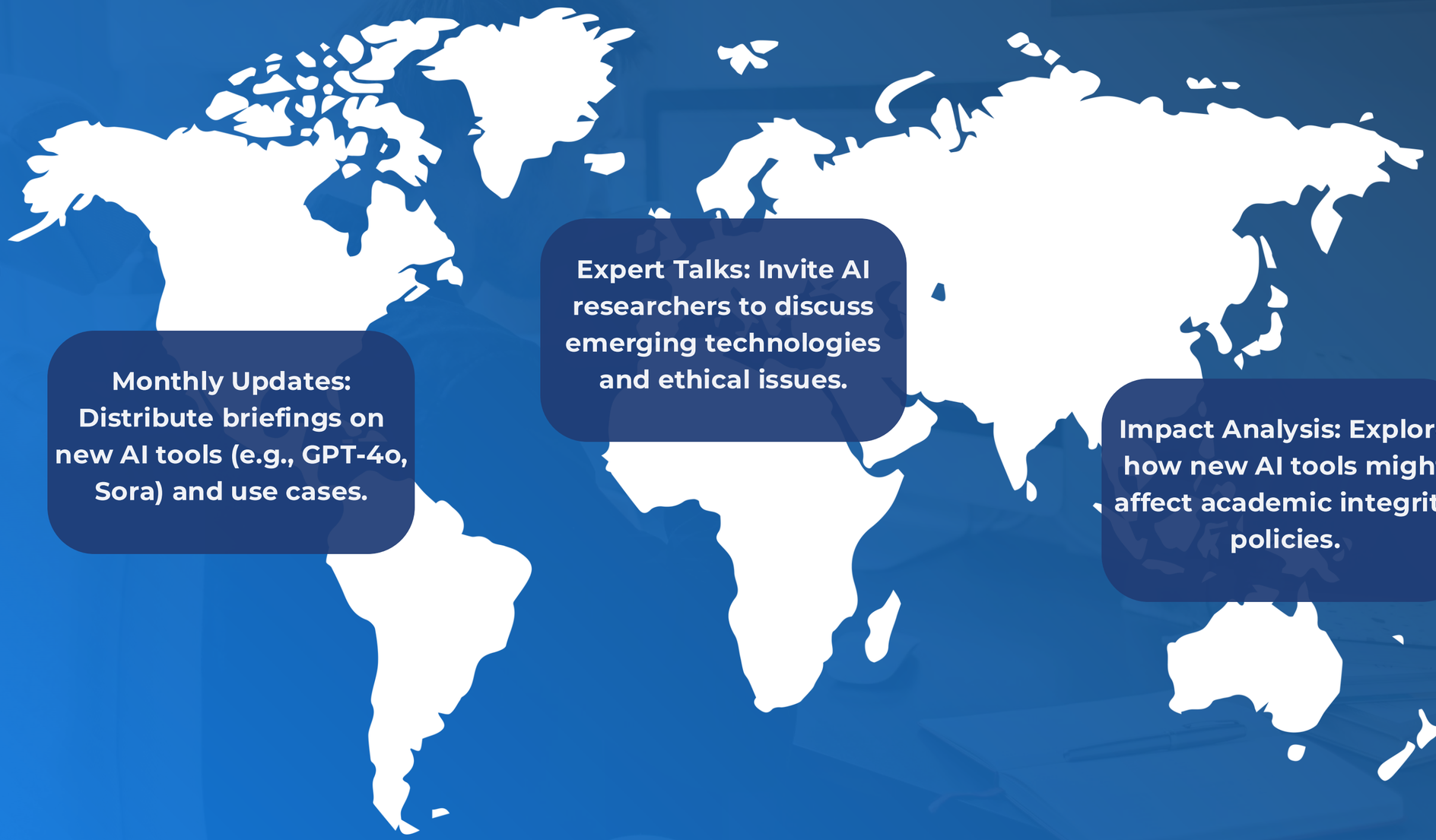
02 **Online Forums:** Use platforms like Slack to discuss AI challenges and solutions.

03 **Case Study Presentations:** Have teachers present real-world AI integrity scenarios.

04 **Collaborative Resources:** Build a shared library of AI policies and assessment templates.

Emerging AI Trend Briefings

Keeps educators informed about new AI tools and their impact on academia



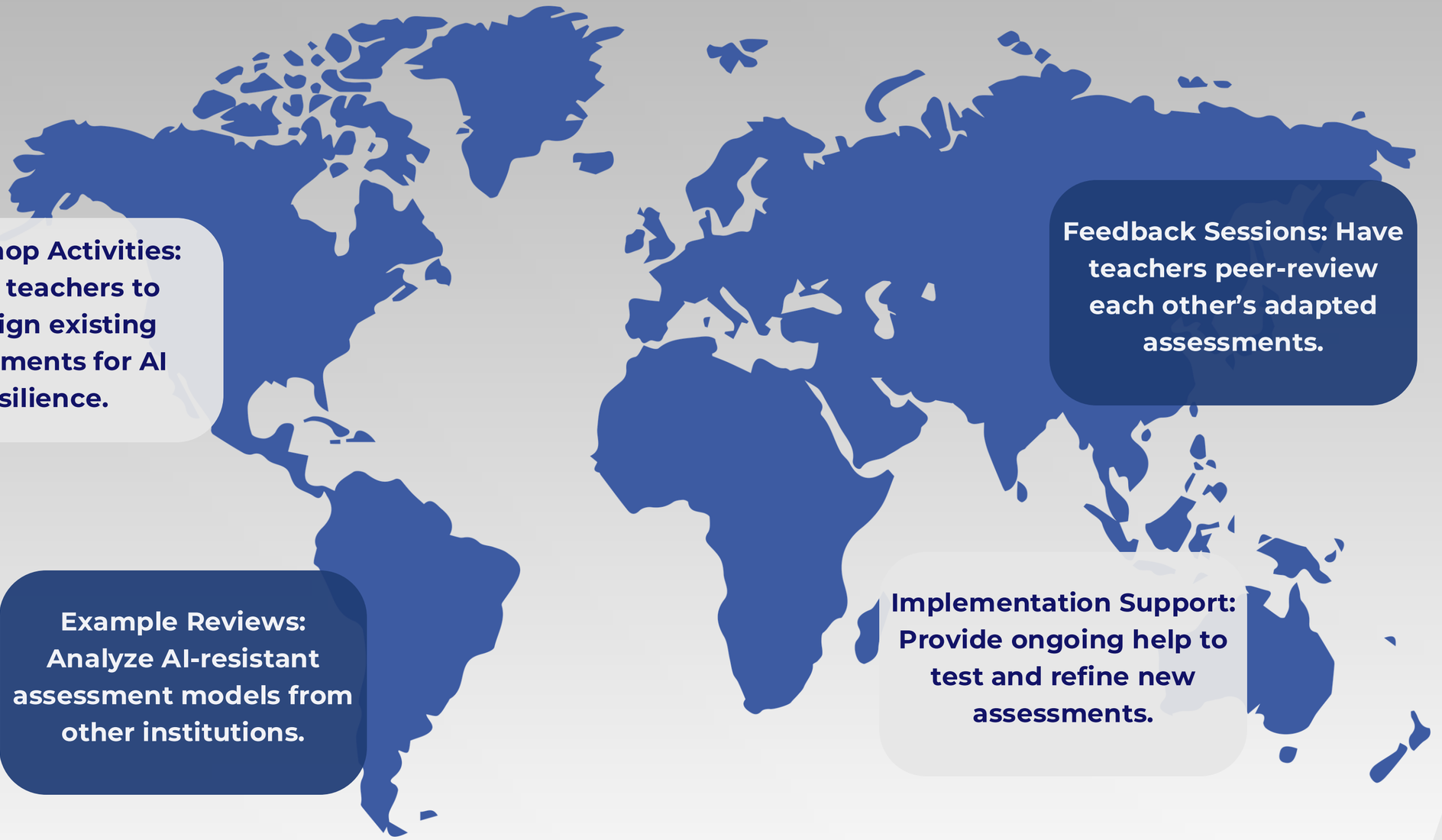
Monthly Updates: Distribute briefings on new AI tools (e.g., GPT-4o, Sora) and use cases.

Expert Talks: Invite AI researchers to discuss emerging technologies and ethical issues.

Impact Analysis: Explore how new AI tools might affect academic integrity policies.

Assessment Adaptation Training

Equips teachers to modify assessments to resist AI misuse



Workshop Activities: Guide teachers to redesign existing assignments for AI resilience.

Feedback Sessions: Have teachers peer-review each other's adapted assessments.

Example Reviews: Analyze AI-resistant assessment models from other institutions.

Implementation Support: Provide ongoing help to test and refine new assessments.

07

MEASURING STRATEGY IMPACT

HELPS INSTITUTIONS EVALUATE THE EFFECTIVENESS OF AI INTEGRITY INITIATIVES

ACADEMIC INTEGRITY METRICS

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Defines quantitative measures to track AI-related misconduct and policy compliance

01

Misconduct Rates:
Track the number of AI-related academic dishonesty cases.

Disclosure Rates:
Measure how many students report AI use in assignments.

02

03

Detection Accuracy:
Evaluate the rate of true positives vs. false positives in AI detection.

Policy Compliance:
Assess how well students adhere to AI use guidelines.

04

STUDENT FEEDBACK ANALYSIS

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Uses qualitative data to understand student perceptions of AI integrity strategies

01

Survey Analysis: Review responses to questions about AI policy clarity and fairness.

02

Survey Analysis: Review responses to questions about AI policy clarity and fairness.

03

Open-Response Feedback: Identify common themes in student comments about AI initiatives.

LONG-TERM OUTCOME TRACKING

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Monitors the sustained impact of AI integrity strategies over multiple semesters

01

Graduation Outcomes:
Track whether AI-literate students perform better in post-grad roles.

Alumni Feedback:
Survey graduates on how AI integrity training prepared them for careers.

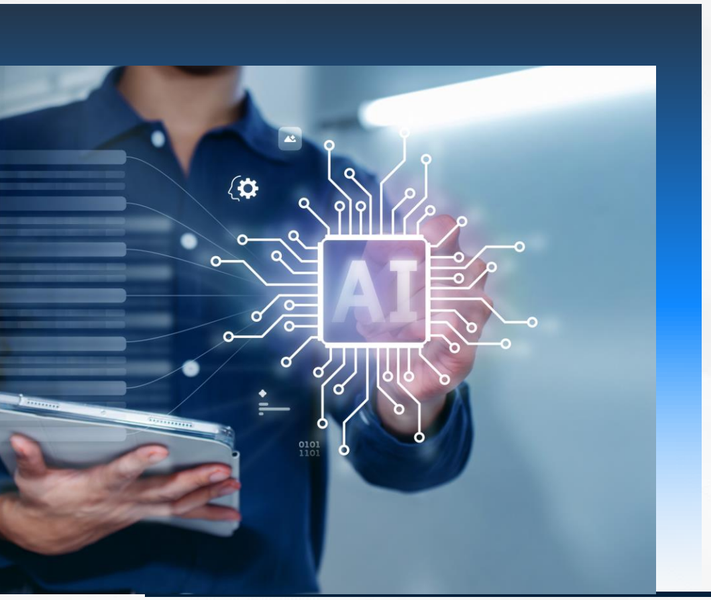
02

03

Policy Evolution:
Assess how strategies adapt to long-term AI technological changes.

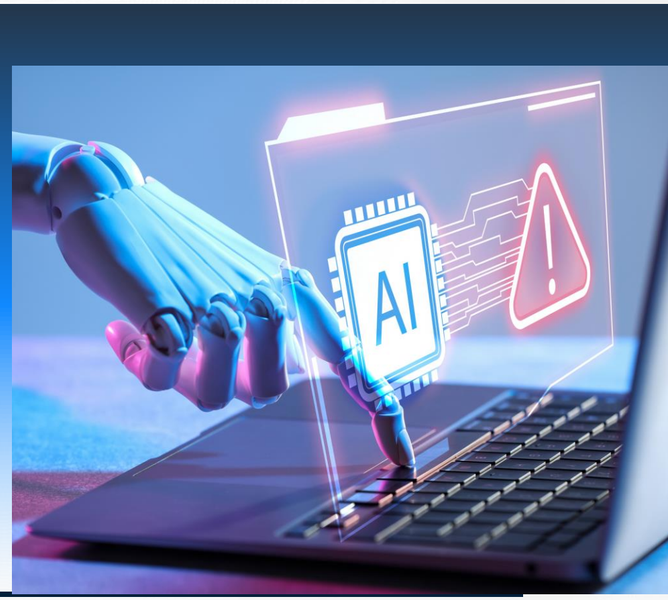
Institutional Reputation:
Monitor changes in the university's standing for academic integrity.

04



AI USE POLICY FRAMEWORK

Provides a structured approach to creating institutional AI guidelines



Data Review Cycles:
Schedule quarterly reviews of metrics and feedback.

Stakeholder Meetings:
Convene faculty, students, and admins to discuss findings.

Pilot Programs:
Test revised strategies in select courses before full implementation.

Documentation:
Record changes and their rationales for future reference.

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This guide equips university teachers with actionable strategies to uphold academic integrity amid generative AI's rise.

From defining core principles and designing AI-resilient assessments to teaching ethics, implementing detection tools, fostering open communication, training educators, and measuring impact, each section addresses critical aspects of responsible AI integration.

By combining clear policies, student engagement, and continuous evaluation, institutions can balance innovation with integrity, preparing students to use AI ethically in academia and beyond.

谢谢观看

THANK YOU

GRACIAS

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