

Artificial Intelligence: A Practical Efficiency Tool for Post-Secondary Instructors

Mark J.R. Dailey, *BCLS, P.Surv*

Program Head

Geomatics (Surveying & Mapping)

British Columbia Institute of Technology

mark_dailey@bcit.ca

"Working Smarter, Not Harder"

The Instructor's Workload: A Common Challenge



Key Point 1: Multi-faceted Workloads

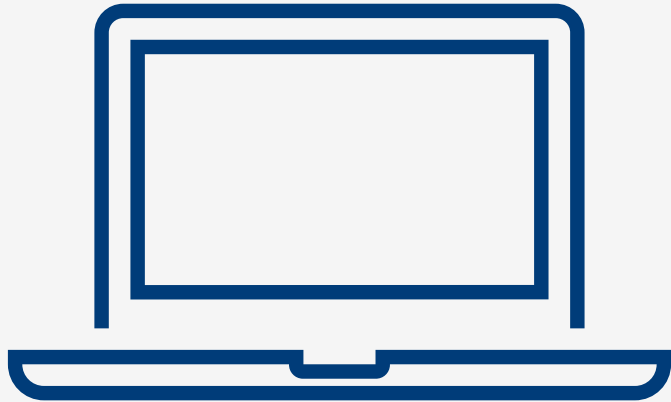
- Instructing
- Assessment & grading tasks
- Routine administration

Key Point 2: Time-Consuming Essentials

- Repetitive marking
- Student workgroup assignment
- Course content generation



AI as an Intelligent Assistant: A Practitioner's Perspective



Key Point 1: Practical Utility

- Augmenting capabilities, not replacing judgment
- AI as a 'smart assistant'

Key Point 2: Personal Experience

- Insights from geomatics instruction
- Streamlining with familiar tools (e.g., Excel)

Streamlining Assessment: Precision & Consistency with AI



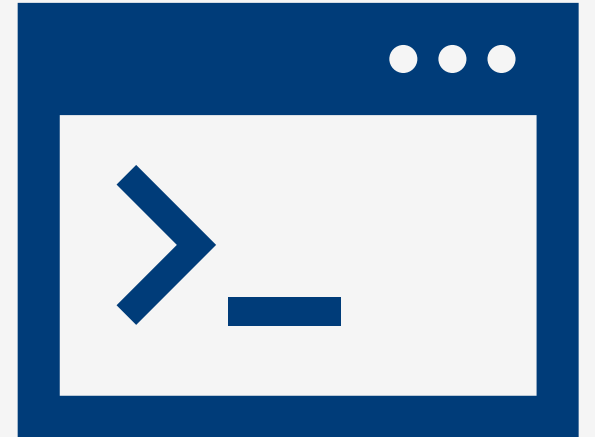
Key Point 1: Expediting Marking

- Generating code snippets for specific calculations.
- Creating complex Excel & Python formulas & codes

Key Point 2: Ensuring Consistency & Saving Time

- Streamlining checks for field tests
- Reducing repetitive verification

Benefit: More time for meaningful student feedback



Automating Administrative & Content Creation Tasks (Part 1)



Key Point 1: Equitable Group Formation

- Instantly randomizing student lists
- Saving administrative time

Key Point 2: Accelerating Content Development

- Preliminary glossaries (technical terms)
- Drafting comprehensive FAQs

Automating Administrative & Content Creation Tasks (Part 2)



Key Point 1: Developing Study Aids

- Generating simple study guides
- Providing quick resources

Key Point 2: Summarizing Complicated Topics*

- Case law, legislation or regulations
- Starting point for research/discussion

***Note:** AI outputs *always* require expert review



The True Value: Reclaiming Time & Enhancing Pedagogy



Core Benefit: Significant Workload Reduction

- Less time spent on repetitive tasks

Strategic Shift: More focus on high-value activities

- Deeper student interaction
- Innovative teaching
- Refining pedagogy

Guiding Principle: AI as an intelligent assistant

Key Takeaways & Discussion



Key Takeaway 1:

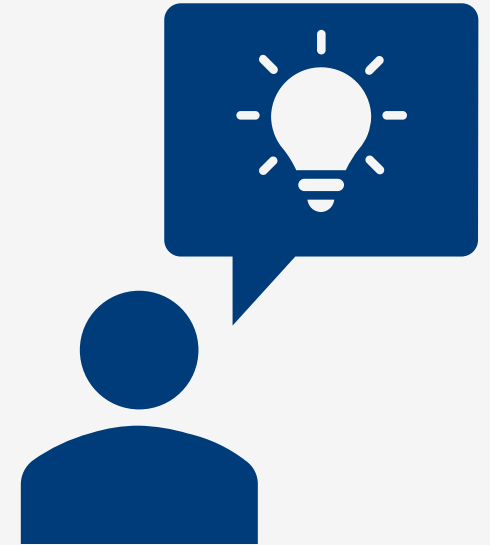
- AI offers tangible, practical solutions for instructors

Key Takeaway 2:

- Automate mundane tasks for efficiency

Key Takeaway 3:

- AI enhances, not replaces, human expertise



Are you ready to explore using AI as ***your*** intelligent assistant?