



SCHELLER COLLEGE OF BUSINESS

800

# Virtual IT Teaching Workshop 2021

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# **Learning and Education: Navigating Change and Transitions**

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# OBSERVATIONS

- Even Change is Changing
  - Speed, Scope, Frequency, Depth, Impact, Rate of Diffusion
- No organization/industry can expect the future to be a linear extrapolation of the past.
  - Need to continuously adapt and innovate to thrive.

# TRANSITION & CHANGE IN HIGHER EDUCATION

- Educational Technology
- Learning Outcomes

# TRANSITION & CHANGE IN BUSINESS EDUCATION

- Educational Technology
  - Online Learning
    - GA Tech Online Degrees (CS, Data Analytics, Cyber Security)
  - Learning Management Systems (*Information Management: Tracking Assignments/Due Dates, Exam Dates, Schedules*)
    - Canvas
  - Digital Teaching Support (*Online Exam Proctoring and Grading, Digital TA*)
    - GA Tech's Jill Watson (Ashok Goel)

# GA TECH AI TEACHING ASSISTANT: JILL WATSON

Q1

Is it the case that only basic problems have the problem text data available?

A1

There are no verbal representations of Challenge problems. They'll only be run as visual problems. But you're welcome to write your own verbal representations to try them out!

Q2

Is it permissible for Project 3 to be in a different language than our Project 1 and 2 submissions? (from Java to Python)

A2

Yes, you may switch between the two languages from one project to the next with no problem.

\* Ashok Goel, GA Tech Alumni Magazine, Vol 94, #2, 2018

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    - GA Tech's Jill Watson (Ashok Goel)
  - Learning/Advising Analytics
    - GA State University's GPS Predictive Analytics



# LOOKING AHEAD: EDUCATIONAL TECHNOLOGIES

- Learner-Centered Design
  - Support of Cognitive Processes, Behaviors, and Psychological Factors Important in Learning
    - Examples:
      - Cognitive Information Processing, Mental Models (Memory Structures)
      - Engagement, Interest, Motivation



# SHIFT IN LEARNING OUTCOMES

- Higher-Order/ Critical Thinking Capabilities
  - Increase in Highly-Cognitive Non-Routine Work
  - Increase in Complexity of Work
- Learning Agility
  - Rapid Rate of Change, Information, and Knowledge Creation

# HIGHER-ORDER COGNITIVE CAPABILITIES

- Sense-Making
- Unstructured and Novel Problem Solving
- Managing Ambiguity and Uncertainty
- Judgement
- Integrative Thinking
- Multi-Criteria Decision-Making (*Conflicting Criteria*)

# LEARNING AGILITY

- Observation (*Context Awareness*)
- Accurate and Timely Feedback
- Reflection
- Introspection
- Self-Motivation

## LinkedIn Learning Model

- Individual skills, What jobs may be of interest, Skill requirements of those jobs, Identify gaps, Offer learning to bridge the gap



# SUMMARY

- Business Education needs to innovate and change to remain relevant and continue to thrive.
  - Leveraging technology
  - Expansion of Targeted Learning Outcomes

# Thank You!

Any Questions?