Cultivating Spirituality and Leadership through Student-focused Use of Technology

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Overview

There is increasing evidence that the inability to manage digital technology can distract and overload students, inhibiting both their academic performance and spiritual leadership among peers. From diminished reading, to multi-tasking, to narcissistic self-expression and a consumerist obsession with new devices, the unguided stewardship of a digital culture often stunts or prevents the formation of our students’ spiritual identity and relationships with people and other realities bigger and beyond the immediate digital “fix” on screen.
Gifts of Technology & Innovation
3 His divine power has given us everything we need for a godly life through our knowledge of him who called us by his own glory and goodness.

4 Through these he has given us his very great and precious promises, so that through them you may participate in the divine nature, having escaped the corruption in the world caused by evil desires.
Philistines’ use of Iron
Guttenberg and the printing press
Einstein and the Atomic Bomb
Personal Computer/Mobile Technologies
Discussion Question

What guided the adoption of mobile technologies at your institution?
Self-Interest vs Greed*

• “Self-interest is part of our design in God; greed is the result of our own selfish desires”*

• Use and proliferation can occur out of either

• Stewardship of God’s resources/opportunities/preferences determines the difference in outcomes

Technology & Systems Design Theories

Example: Structuration Theory

Examines how people, as they interact with a technology in their environment, enact structures which shape their emergent and situated use of that technology.

People shape and are shaped by technology.

DeSantis and Poole (1990), and Orlikowski (1992)
All Gifts from God

• Our responsibility and stewardship in introducing technology to students

• Purpose in technology – intentionality

• Opportunity to define use vs default to worldly adoptions and adaptations in use, e.g., entertainment, negative socialization, “narcissistic” purposes

• Unguided, end result is often misuse, missed opportunities
Benefits of Stewardship
Applied Scientific Research

The DARPA Targeted Neuroplasticity Training (TNT) program. Downloadable learning that happens in a flash.
Opportunities for Pedagogy

• Experiential Learning
• Paced learning
• Adaptive Learning
• Self-guided Learning
  • Developing independent learners
  • Developing life-long learners
• Mobile Learning
• Online Learning
  • Revenue vs learner focused
Benefits to the Student

• Creativity and Character Formation
• Experiential and Mobile Learning
• Interventions for Gifted Learning Styles
  • ADD
  • Dyslexia
  • Autism
• Online Flexibility for Non-traditional learners
Experiential Learning
Example: The ACU Maker Lab and Constructionist Pedagogy (Curiosity and Honesty)
Example: The Maker Lab and Character Formation (Humility, Fair-mindedness, and Empathy)
Example: Maker Lab and Character Formation (Carefulness, Courage, and Tenacity)
Gifted Learning Styles
Example: Dyslexia

Characteristics

• Difficulties reading
• ADD often coincides with Dyslexia
• Learning environment distracting
• Learning labels intensify perceptions – internal and external
• “Mis-firing”
iPads and Adaptive Reading
Example: Dyslexia

Technology Interventions:
- Dynamic adaptations possible
- Paced Reading – speed reading
- Use of iPad for reading vs physical pages
- Offset trigger words – dynamic substitution
- Ability to substitute text with pictures, numbers, more
Mobile Learning
Two Examples...
Aaron Monroe

https://spark.adobe.com/video/Ag4a73Y5BjaMY
Audrey Linder

https://spark.adobe.com/video/XnR0Qayhi9RNZ
Benefits to Non-Traditional Students
Example: Online Learning

Opportunities:
• Different learning needs – traditional vs adult learners
• Both are changing – millennials, work-family balance
• Entrepreneurs
• Require reduced face to face instructional time
• Self-paced, resource-guided learning
• Learning without walls
• Manage cost of instruction
Discussion Question

What can be changed to redirect the use of technology vs students being used when technology is introduced in an environment?
Summary

• Technology is a gift; we have the responsibility to steward its use among students

• Technology is an adaptive, innovative tool to facilitate experiential learning and support diverse learning needs

• Technology can reduce the cost of education

• Technology unmanaged creates disruptions in society and academe, wasted resources and misdirected business signals
Summary

“We turn to God for help when our foundations are shaking, only to learn that it is God who is shaking them.”

C. West Churchman
References


Questions?