



Nanyang Business School

# Teaching and Learning with Digital Course Solution

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# Presentation Outline

- Literature review
- Concerns Addressed by Digital Course Solution
- Methodology
- Findings
- Areas for Further Research

# Introductory Accounting: Literature Review

- *Students in doing introductory accounting course tend to be surface learners who “see the task of learning as externally imposed”*
- *Their aim is primarily to “memorise or reproduce material” rather than to “integrate topics into a coherent whole”*
- Lucas. U (2001). Deep and Surface Approaches to Learning within Introductory Accounting: A Phenomenographic Study. *Accounting Education* 10(2), 161-184.



# Concerns addressed by Digital Course Solution

- How to raise students' interest to do well in the course?
- How to utilise class time better without spending time on repetitive work problems?

# Implementation of Digital Course Solution



## □ Before

- Tutorials
- Group project assignment
- Manually graded
- Time consuming for students
- Difficult to measure individual student performance

## □ Digital Course Solution

- Removed group project assignment
- Introduced individual compulsory/self-practice online assignments and online quizzes

# Digital Course Solution: Platform for blended learning



## Advantages of blended learning

- Offers various learning channels which help to elicit their motivation, as learners have different preferred delivery format (Lim & Morris, 2009)
- Lim, D.H., & Morris, M.L. (2009). Learner and Instructional Factors Influencing Learning Outcomes within a Blended Learning Environment. *Educational Technology & Society*, 12(4), 282-293.
- Offers instructors the flexibility to use online resources. Enables instructors to spend time more efficiently (Oh & Park, 2009)
- Oh, E., & Park, S. (2009). How are Universities involved in Blended Instruction? *Educational Technology & Society*, 12(3), 327-342

# Methodology

(1) Surveyed students on the use of Connect in Oct 2014

- 8 main questions to capture student perceptions about digital solution
- Responses converted to Likert scale system (1: Strongly Disagree, 5: Strongly Agree)

(2) Compared test grades between pre-adoption and post-adoption period of Connect

(3) Interviewed instructors

# Findings (1a): Positive Feedback on Use of Digital Course Solution

## Survey Results from 256 current BU8101 students

Increased students' confidence in the course

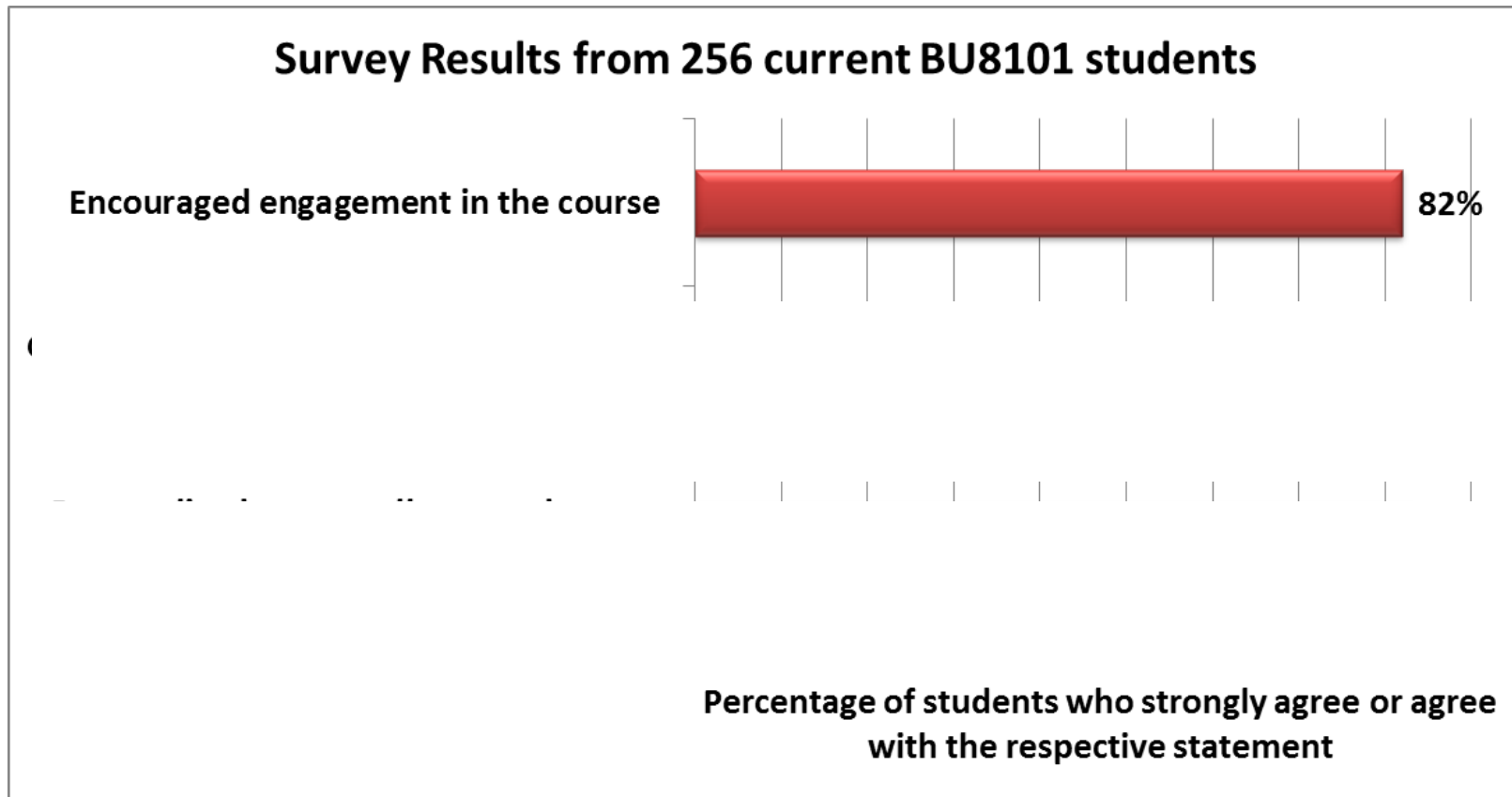


0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Percentage of students who strongly agree or agree with the respective statement

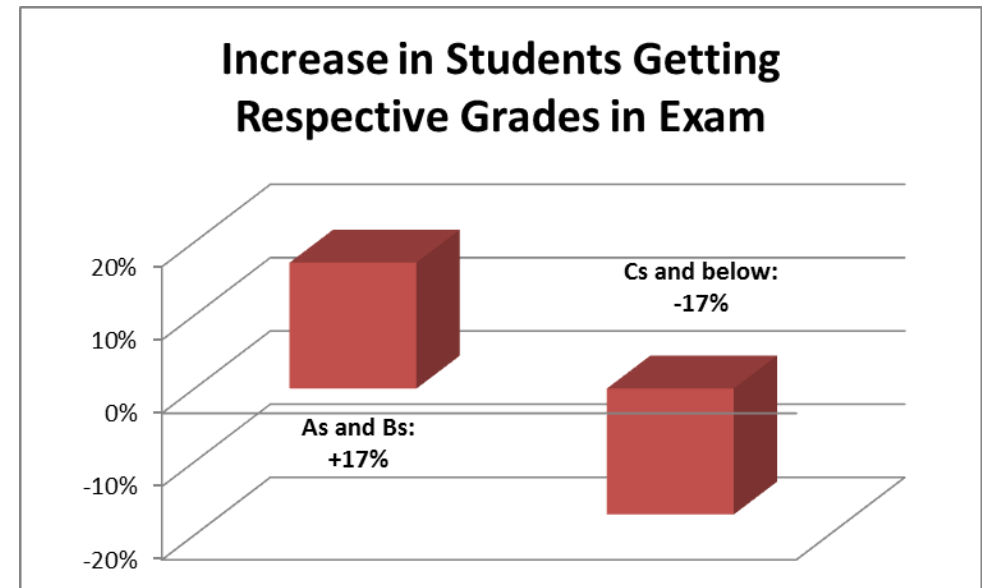
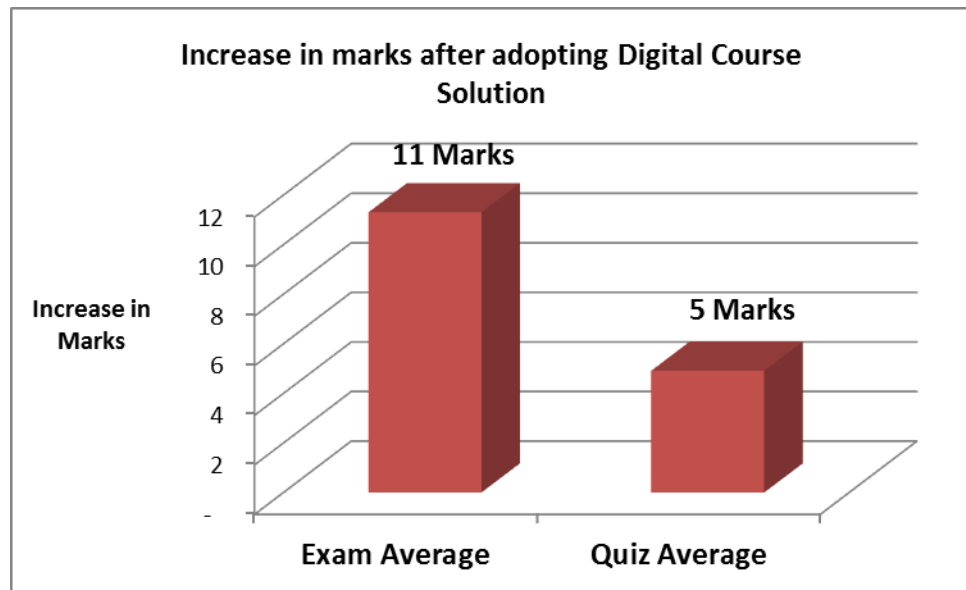


# Findings (1b): Suggested Improvements in Digital Course Solution



- Engagement: More attractive interface & improved accessibility via mobile devices
- Better link between study materials & question bank
- Personalised reports: Utilise learning objectives. Better benchmarking capability

# Findings (2): Grades pre & post adoption of Digital Course Solution



## Findings (3): Interviews with Instructors: Teaching Enhancements

- Platform to share course materials among teaching staff
- More time in class to discuss interesting case studies and involve class in engaging activities
- Saved instructors much time to focus on improving the course

# Areas for further research

- Effectiveness of learning analytics to identify areas where students need help
- Whether other accompanying digital technology tools, such as flashcards, enhance student engagement and performance
- Whether such digital solutions can be used for formal assessments

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Now It's Time to Say  
Thank You .....

Any questions?