New methods for distance learning

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A Blended Learning Approach to Engineering Education



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Talk Outline

- · Blended Learning
- Engineering Modules tried
- Moodle VLE
- Streamed Video Lectures
- Student feedback
- Conclusions



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Blended Learning

- Blended Learning is learning which combines online and face-to-face approaches.
- The challenge is getting the right blend
- And the ingredients!



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Engineering Modules tried

- Analogue Electronics 2nd year
- Signals & Systems 3rd year
- Digital Signal Processing 4th year



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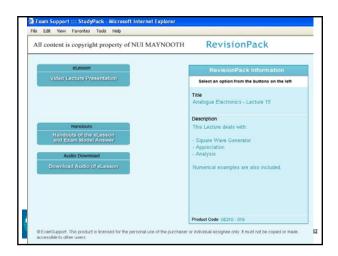
Moodle VLE

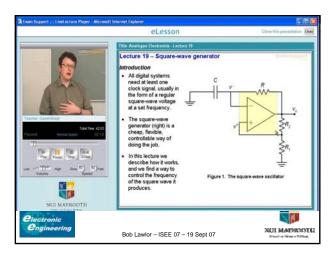
- Previously worked with WebCT[™] and Blackboard[™]
- MyVLE
- NUIM adopted Moodle in 2005

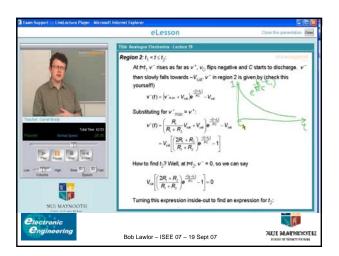












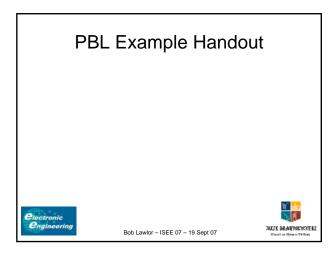


Example videos

- Example with headshot
- · Example without headshot
- Example with overlay headshot

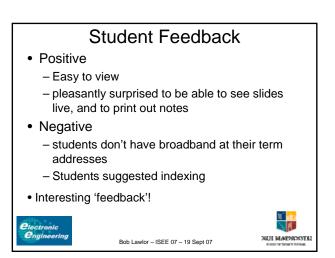












Conclusions

- Optimal blend depends on individual teaching style
- Full headshot version requires help to prepare & implies large files
- Voice plus slides easier to prepare and implies smaller files
- Efficiency benefit comes in subsequent deliveries of module



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There are really no models of e-learning per se – only e-enhancements of models of learning...

...A model of e-learning would need to demonstrate on what pedagogic principles the added value of the 'e' was operating.

JISC e-Learning Models Desk Study
Stage 2: Review of e-learning theories, frameworks and models, 2004

Authors: Terry Mayes & Sara de Freitas

JISC = Joint Information Systems Committee (www.jisc.ac.uk)

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Acknowledgements

- Dr Frank Devitt, Dept of Electronic Engineering, NUIM
- Dr Garret Brady
- Clear Voice Systems Ltd
 - <u>www.cvslearning.ie</u><u>www.examsupport.ie</u>







Questions

Thank You



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