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INTRODUCTION

- Promoting student engagement through technology enhanced learning
- Micro-Lectures
 - Short, sharp vodcasts covering the essential concepts
- Embedded Quizzes
 - Promote student engagement and a more active learning experience
 - But also provide feedback on student's understanding of particular concepts
- Time-Line:
 - Spring 2017: Pilot study
 - Automn 2017: Implementation on a 2 weeks short course
 - 2017/2018 Academic Year: Used weekly on a level 4 unit



MICRO LECTURE WITH EMBEDDED QUIZZES

Contents

Discussion Notes Bookmarks

- Micro-Lecture Structure:
 - 3 to 5 minutes long
 - Roughly one quiz per minute to promote active engagement
 - The rest of the video cannot be watched without answering the quiz!
- Results can be monitored
 - Allows to reflect on previous class, and influence the forth coming one

Overview	Quiz Results Summary	♣ Download	
Share	Section	Position	Results
Outputs	Quiz	01:07	11/11 (100%)
Quiz Results	Quiz	02:11	11/11 (100%)
Streams	Quiz	02:54	11/11 (100%)
Clips	Quiz	03:42	4/10 (40%)
Search			

	ML1 Basic Principles	0:05
	Basics of Units	0:19
	Basics of Units	0:23
	In physics there are 7 fundamental units anything	0:32
	Mass (g)	0:46
	Length (m)	0:50
	Quiz	1:07
	Density, Relative Density and Specific Gravity	1:09
	Density, Relative Density and Specific Gravity	1:13
	Density, Relative Density and Specific Gravity	1:28
	Density, Relative Density and Specific Gravity	1:42
	Quiz	2:11
	Mass and Weight	2:12
	Mass and Weight	2:15
	Mass and Weight	2:35
	Quiz	2:55
	Newton's Laws of Motion	2:56
	Newton's Laws of Motion	3:01
	Newton's Laws of Motion	3:08
	Newton's Laws of Motion	3:22
	Quiz	3:42





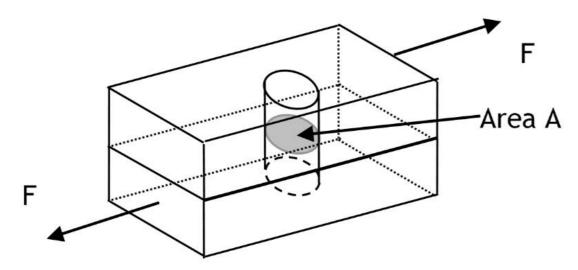




Direct Stresses and Shear Stresses



 Consider the diagram below where a pin is holding two blocks together, each subject to a shearing force. The pin will need to resist the shear force with the grey area, parallel to the direction of the loading.



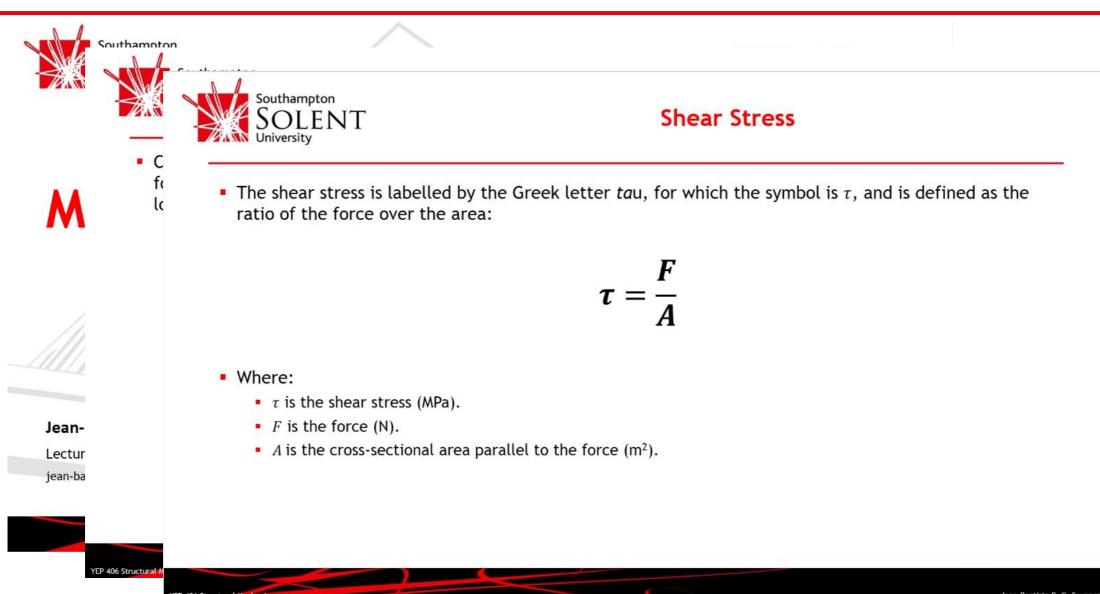
jean-ba

Jean-

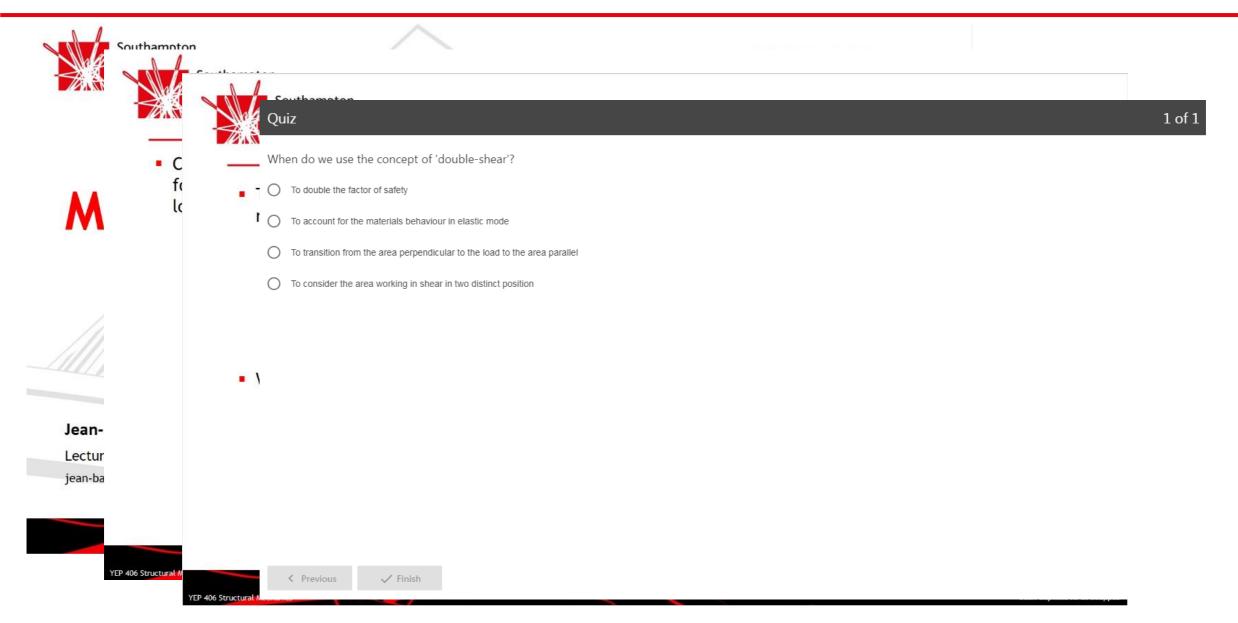
Lectur

Jean-Baptiste R. G. Souppez

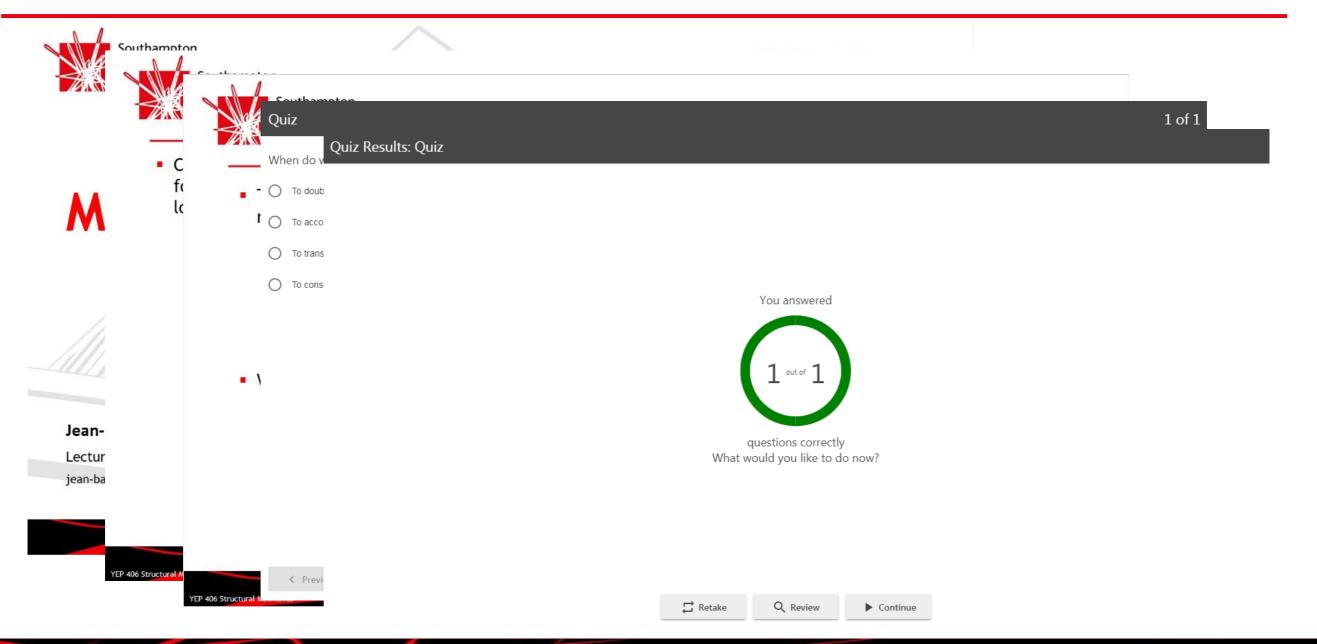














EXPERIENCE WORKING AS A RESEARCH ASSISTANT

- I found this job through Solent Graduate Jobs: https://graduatejobs.solent.ac.uk
- It is a part-time job that will allow me to earn some extra money
- I carried out a research under my supervisor's guidance
- I learnt some valuable skills:
 - Analytical Skills
 - Administrative Skills
 - Computer Skills
 - Research / Project Skills
- All of them were really helpful for my Bachelor's and gave me extra points when I applied to job positions
- In the future I could find a job as a Research Assistant at a media company



FOCUS GROUPS AND QUESTIONNAIRES

- We chose to do this using an informal setting
- The focus groups had two parts:
 - A structured questionnaire
 - An open debate where I could take some notes and make observations
- Something that motivated students to participate in these focus groups was the possibility of earning a prize and get some free pizza
- I found that the students were more keen to discuss their thoughts and opinions in an informal chat,
 rather than writing everything on paper
- It was also a good opportunity for them to give some ideas and suggestions to improve the overall course
- Additionally, the students became aware of the role of a research assistant and some of them showed interest to work next year as researchers

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FINDINGS

Professional

- The students liked the new method of learning through Micro-Lectures
- They gave good feedback on possible ways of improving the lectures
- They were keen to explore new techniques and are eager to work with educational technology
- They liked the research groups and enjoyed sharing their opinions with me

Research

- This should be an ongoing research, since the students benefited from it and it's a good way to promote the University resources
- The structure should be the same for the following years

Personal

- I really enjoyed taking part of this project
- It was a valuable experience for my future
- I also learnt new things and skills



FINDINGS: STUDENT PERCEPTION

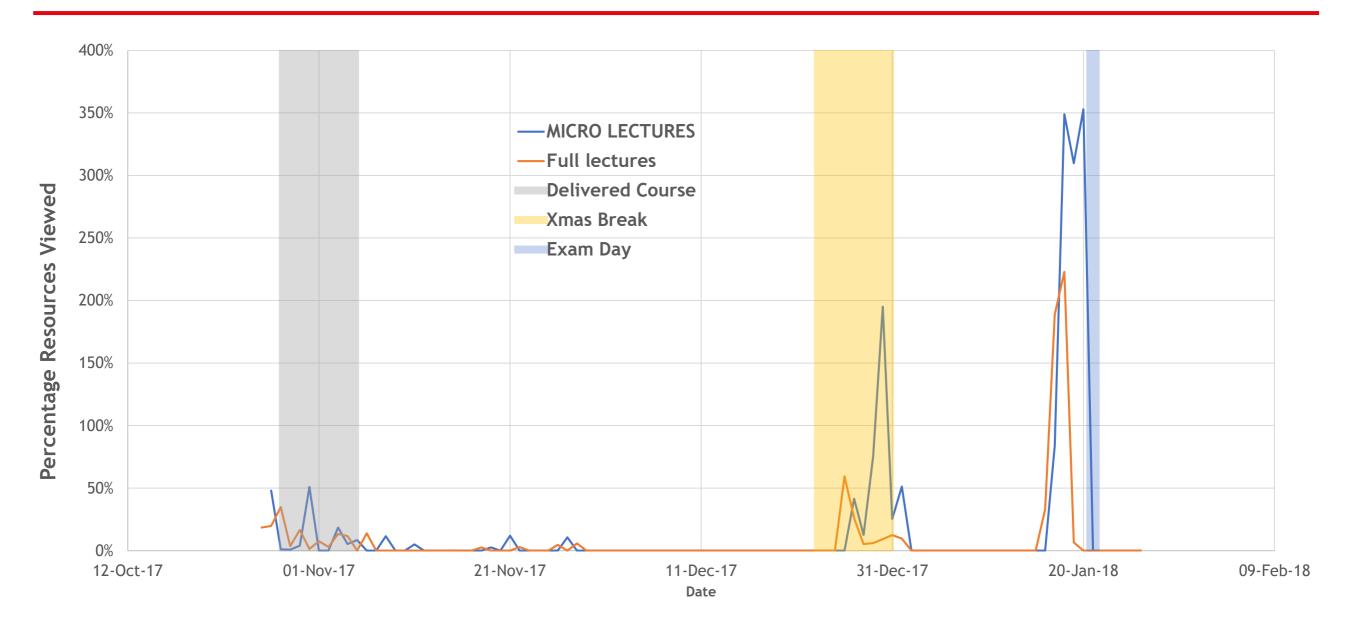
- One of the main findings of the focus group was the student perception of how they would use the resources.
- The majority of the students stated that:
 - They do not watch full lecture capture if they attended the lecture
 - They do watch the micro-lecture even if they attended the lectures
 - Their use of lecture capture is mostly for revision purposes

This can then be contrasted with how they actually used it!

Jean-Baptiste R. G. Souppez



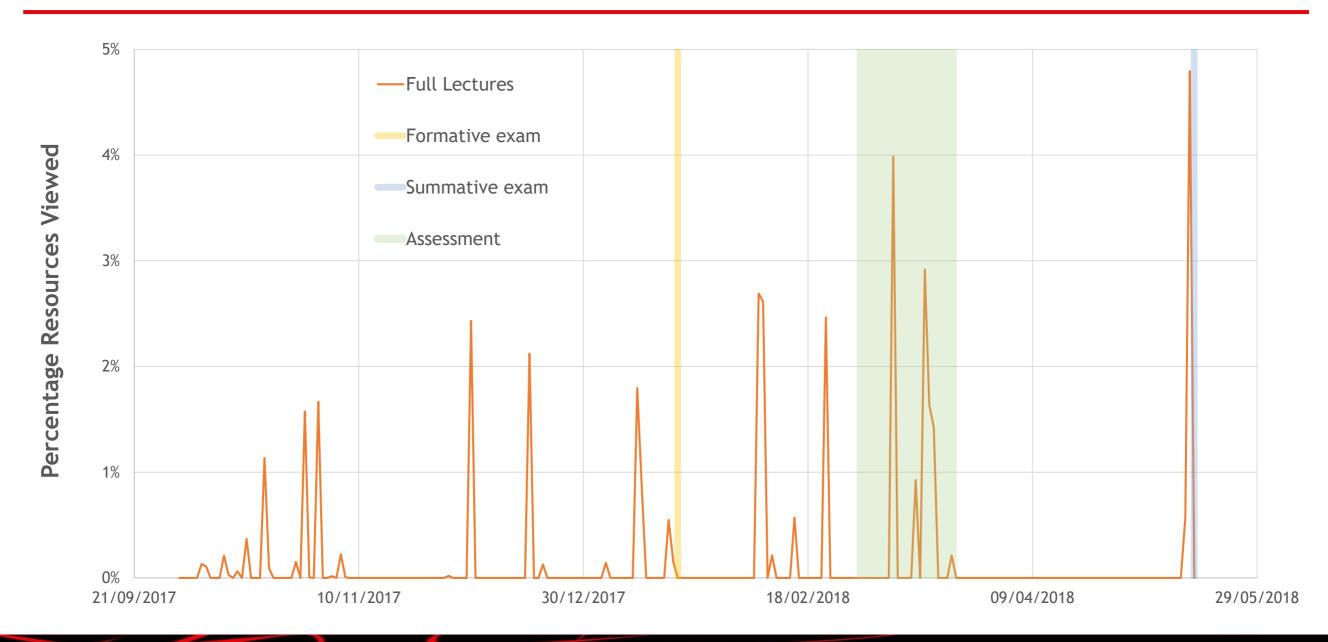
VIEWING PATTERN: SHORT COURSE (LEVEL 7)



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YEP 405 Small Craft Structures



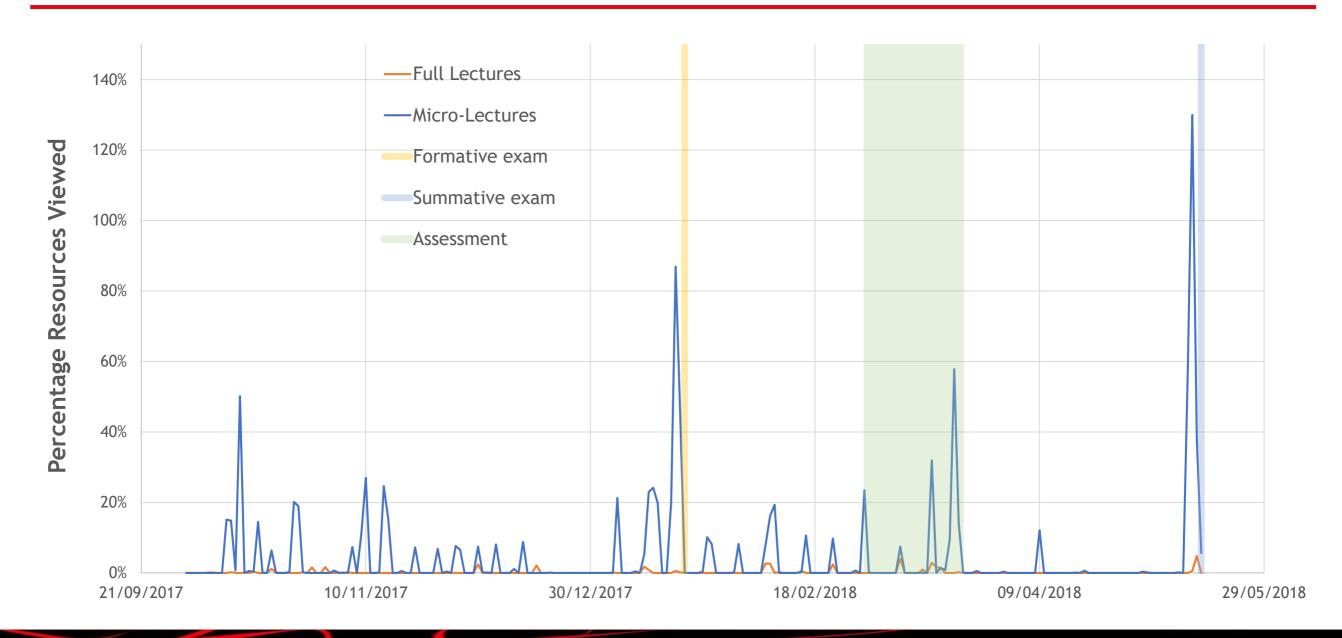
VIEWING PATTERN: YEAR-LONG COURSE (LEVEL 4)



Jean-Baptiste R. G. Souppez
YEP 405 Small Craft Structures



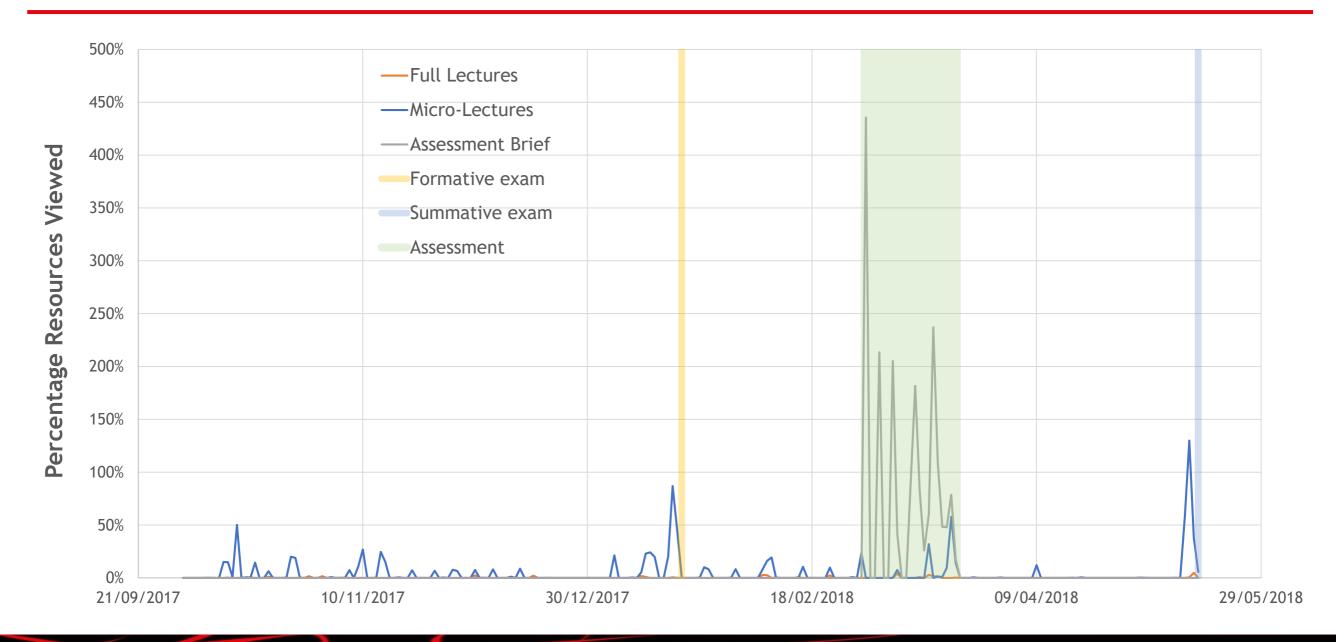
VIEWING PATTERN: YEAR-LONG COURSE (LEVEL 4)



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YEP 405 Small Craft Structures



VIEWING PATTERN: YEAR-LONG COURSE (LEVEL 4)



Jean-Baptiste R. G. Souppez
YEP 405 Small Craft Structures

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CONCLUSIONS

- Year-long implementation of Micro-Lectures with Embedded Quizzes
- Use of questionnaire and focus groups to assess student perception and refine the Micro-Lectures
 - Very high student satisfaction
- Viewing patterns revealed:
 - The critical under-use of full lecture capture (less than 5% viewed)
 - The much better alternative that micro-lecture represent
 - The greater use of micro-lectures to support exam revision and assessment
- What's next?
 - Get other academics involved (that's you... yes, you!)
 - Co-create the micro-lectures with students for a faster and sustainable development

