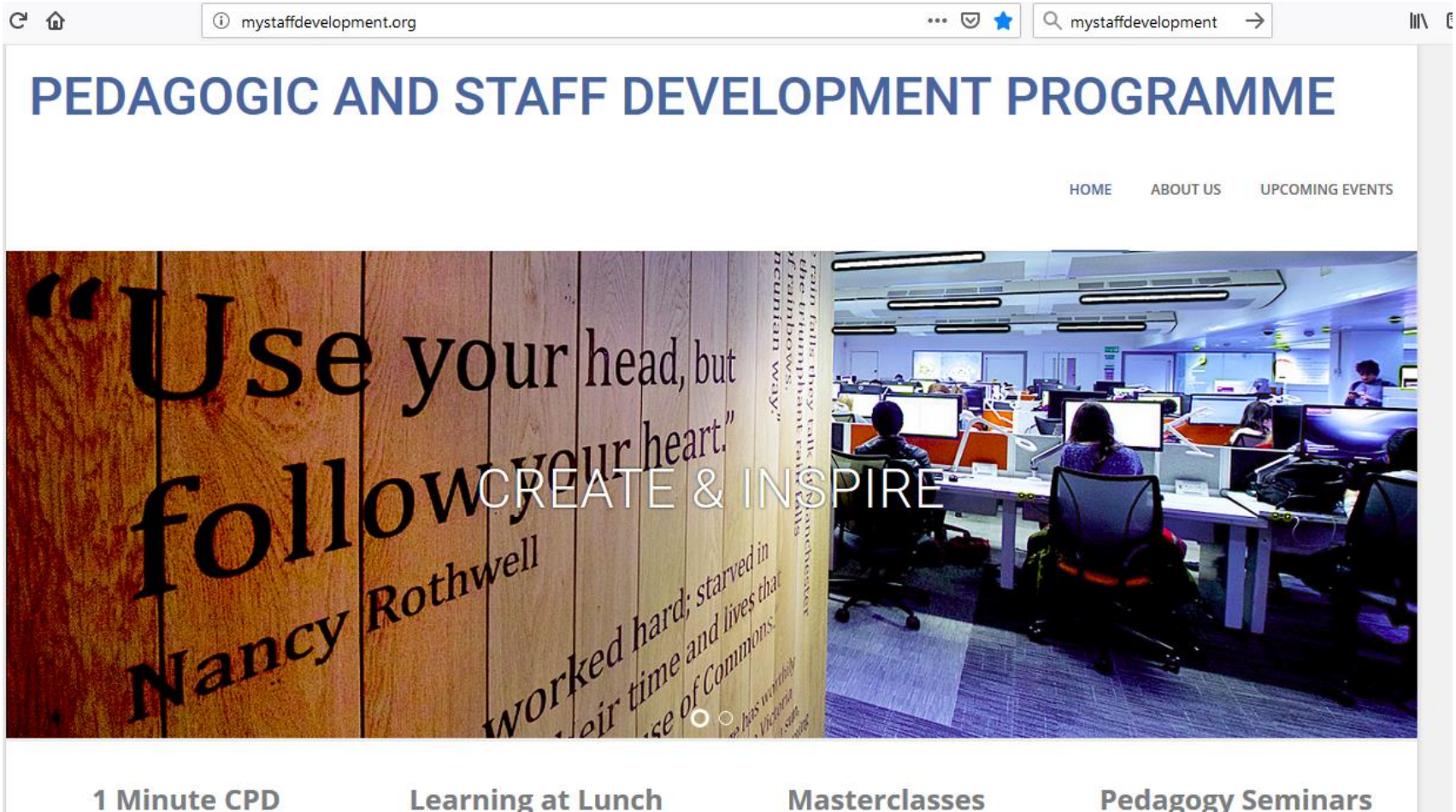


Teaching with Technology Masterclass



mystaffdevelopment.org

mystaffdevelopment

PEDAGOGIC AND STAFF DEVELOPMENT PROGRAMME

HOME ABOUT US UPCOMING EVENTS

“Use your head, but follow your heart.”
Nancy Rothwell

CREATE & INSPIRE

1 Minute CPD Learning at Lunch Masterclasses Pedagogy Seminars

The screenshot shows a web browser window with the URL mystaffdevelopment.org. The page features a navigation menu with links for HOME, ABOUT US, and UPCOMING EVENTS. The main banner area contains a quote by Nancy Rothwell: "Use your head, but follow your heart." The quote is displayed in a large, bold, black font on a wooden background. Below the quote, the text "CREATE & INSPIRE" is written in a white, sans-serif font. To the right of the quote is a photograph of a modern office environment with several people working at desks with computers. At the bottom of the banner, there are four categories of events: "1 Minute CPD", "Learning at Lunch", "Masterclasses", and "Pedagogy Seminars".

Teaching with Technology Masterclass - Overview

1. Introduction (Caroline Bowsher)

- Importance of T&L experience and what trying to achieve and how technology can support process - TP(A)CK

2. Highlight quick wins and longer term approaches (Fran Hooley, Kayla Barram)

- Storyboard approach and link to how use to answer q around teaching practice/delivery at programme/unit level
- evidence based practice cards and link to how use to answer q around teaching practice/delivery at programme/unit level

3. Case study (Paul Bromiley)

- radiological software package development and how TP(A)CK informed the process; simple improvements in software design to enable increased accuracy of diagnosis, support lifelong learning etc.

4. Breakout sessions (participants must choose one or other)

- Storyboarding activity
- Evidence based practice card activity

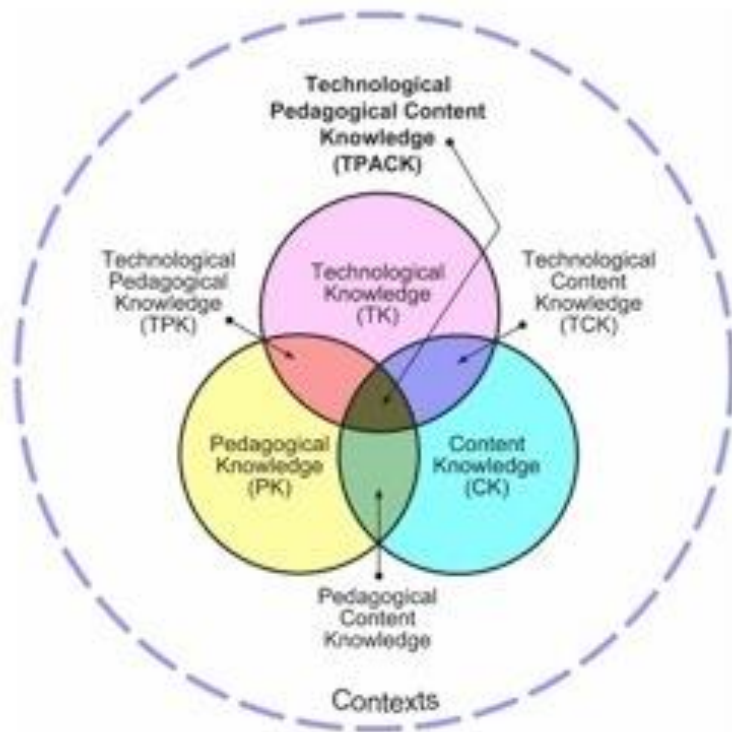
5. Finding out more

6. Embedding the use of technology in teaching (Jane Mooney)

Teaching with Technology Masterclass - Intended learning outcomes:

- Understand how different types of technology may be used to facilitate teaching experiences
- Evaluate selected learning technologies
- Understand how Technology can support the Teaching and learning process from an individual and learner perspective
- Recognise the different ways technology can complement learning across the programme of study
- Explore how to integrate the use of technology with programme and/or unit delivery both as quick wins and longer term approaches

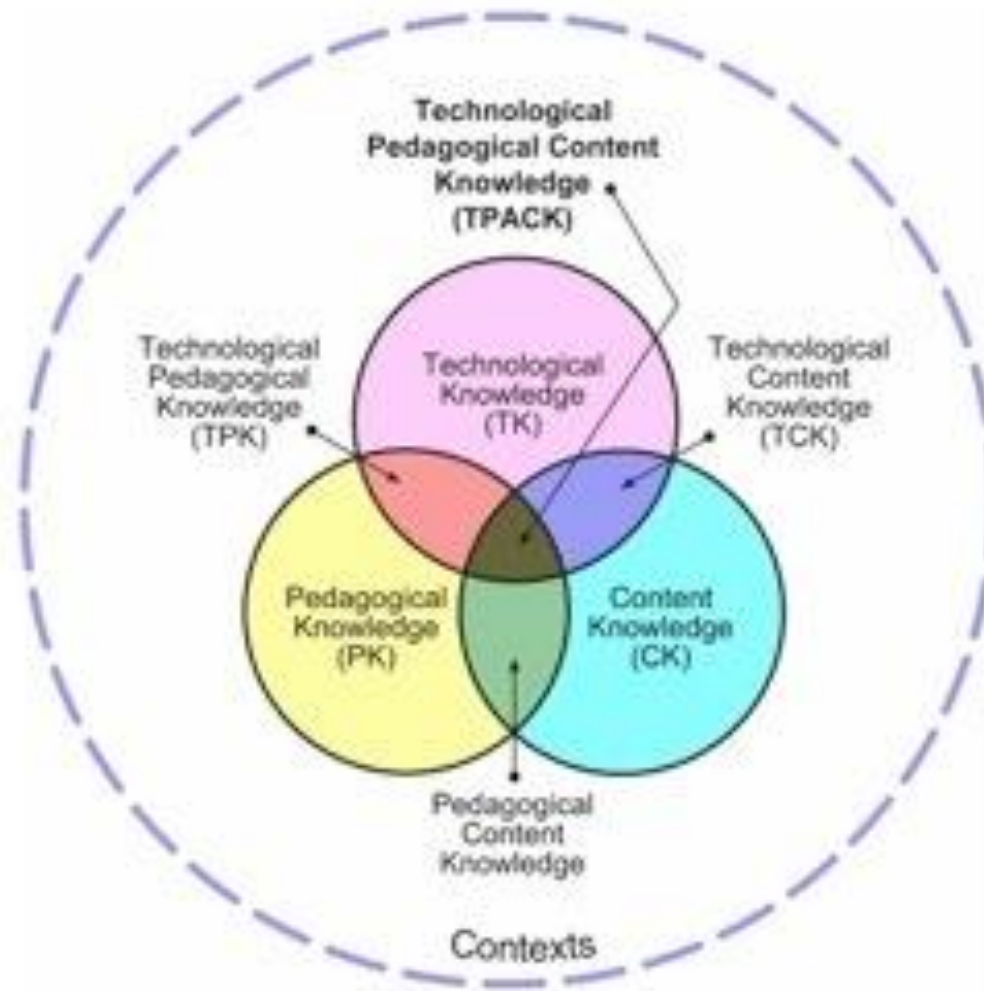
Overview of TPCK [*] *sometimes referred to as TPACK - the extra 'a' just standing for 'and'*



- MISHRA, P. & KOEHLER, M. J. 2006. Technological pedagogical content knowledge: A framework for teacher knowledge. *Teachers College Record*, 108, 1017-1054.
- TPCK is composed of three types of knowledge - technological, pedagogical and content knowledge.
- the *interaction* between these is important.
- with none *alone* leading to effective teaching.
- <http://www.breitbart.com/california/2017/04/01/watch-math-professor-pulls-off-april-fools-day-prank-his-projection-screen-is-on-fire/>

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Overview of TPCK [*] *sometimes referred to as TPACK - the extra 'a' just standing for 'and'*



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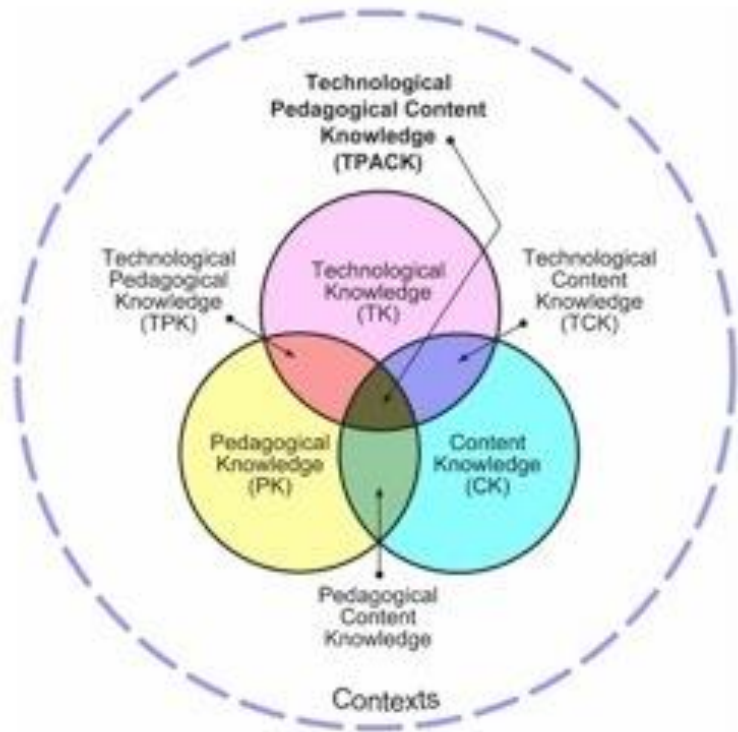
Content knowledge

- Teachers have to 'know their subject' - but also must filter.
- Content is based on various things - background information, research undertaken, personal preferences and interests.
- But none of this alone is enough to make for effective teaching.
- Some subject matter experts find it hard to communicate knowledge.

Pedagogical knowledge

- Pedagogy: the art — or science — of teaching
- The term historically means any teaching although strictly it refers to children, and some have proposed terms like ‘andragogy’ (for adult learning) and ‘heutagogy’ (self-directed learning) as well

Pedagogical Content Knowledge



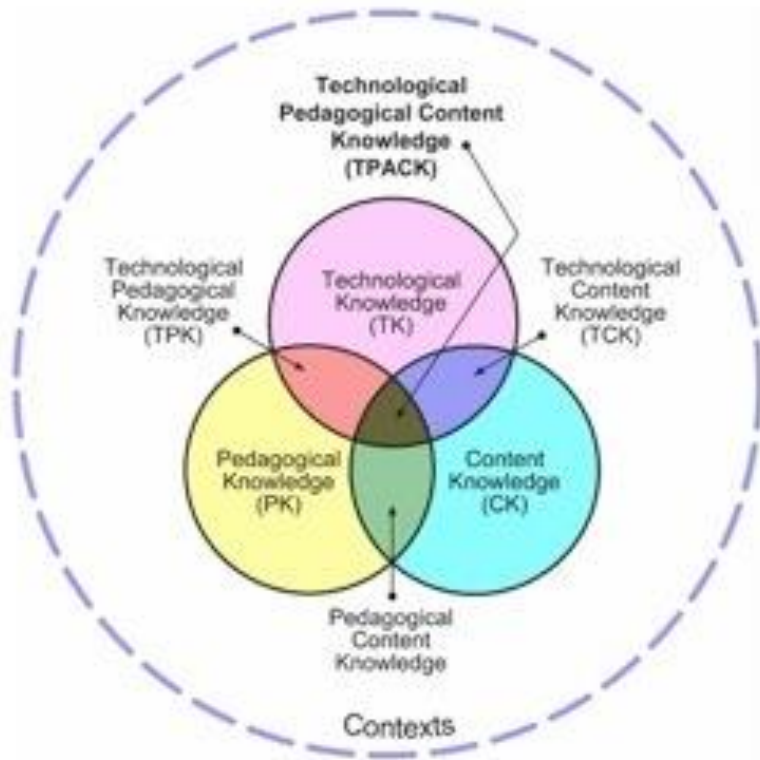
- "the ways of representing and formulating the subject that make it comprehensible to others" (Shulman)
- Pedagogy is not about applying general rules about teaching — but reflecting on their applicability in context.
- Effective teaching in one subject area may be inappropriate in another

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Shulman, L.S. (1986). Those who understand: Knowledge growth in teaching. *Educational Researcher*, 15(2), 4-14.

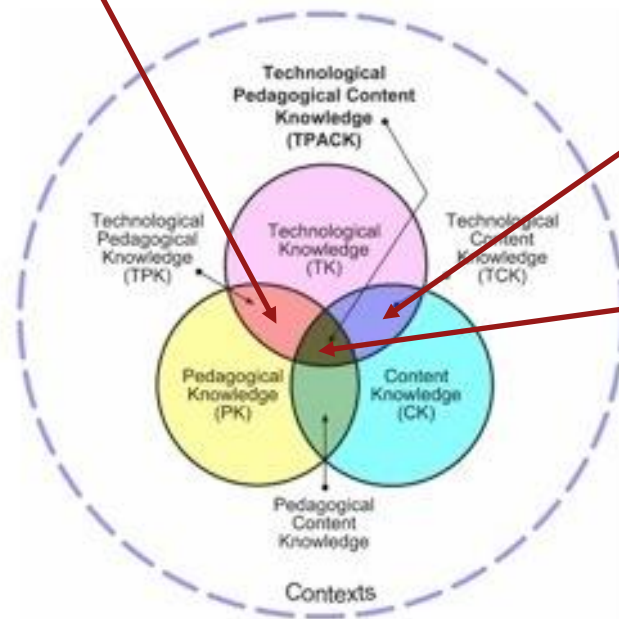
Technological knowledge

- Technology becomes an additional factor
- interacting with PK and CK.



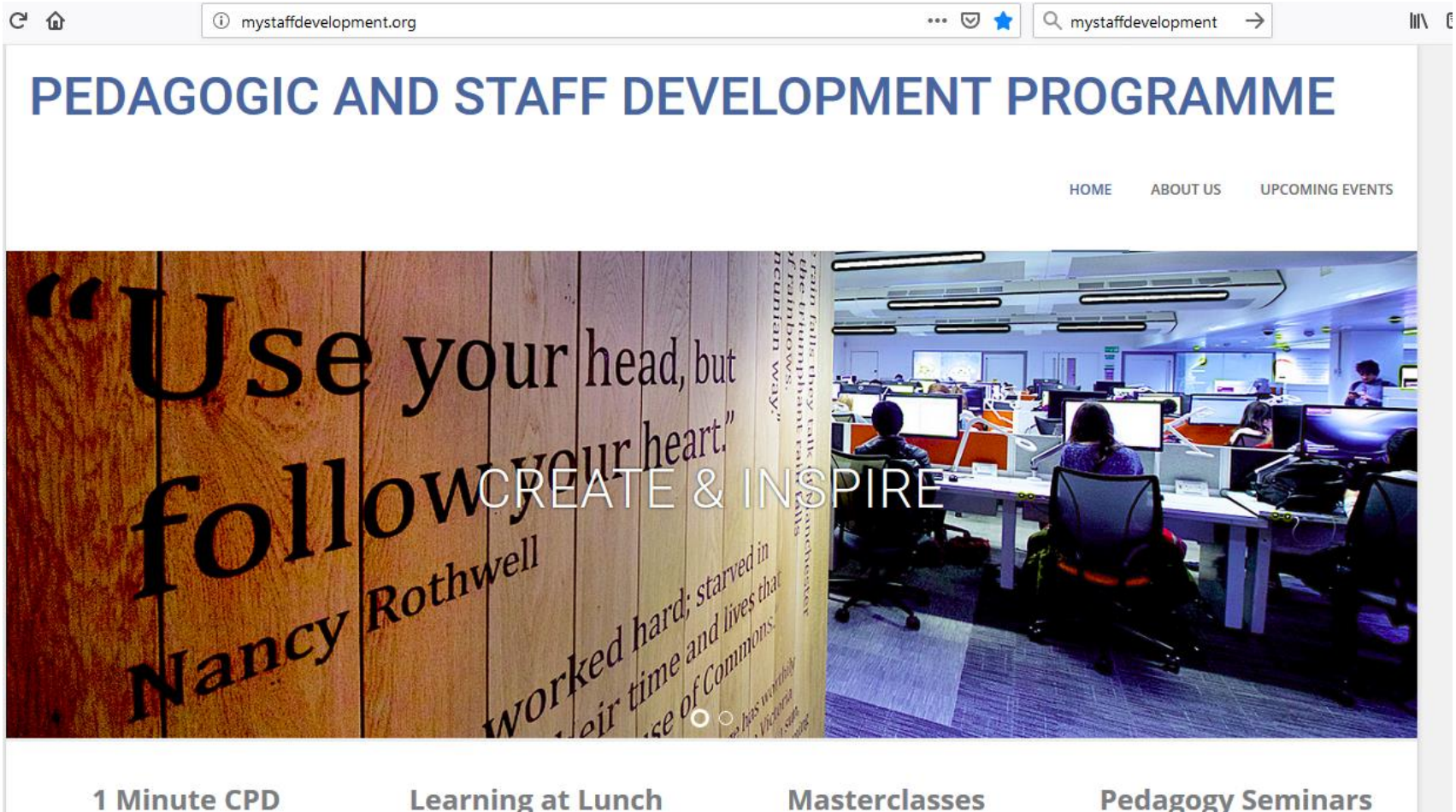
TPK: how does the technology affect the pedagogy of a course (e.g handling distance learners? using social media?)

TCK: how does the technology affect the content of a course (many possibilities, but e.g., learning about information systems or statistics packages on a MBA)



And at the point of interaction of the three... TPACK: “the basis of good teaching with technology” (M & K p. 1029)

Teaching with Technology Masterclass



The screenshot shows the website mystaffdevelopment.org. The main heading is "PEDAGOGIC AND STAFF DEVELOPMENT PROGRAMME". The navigation menu includes "HOME", "ABOUT US", and "UPCOMING EVENTS". The main banner features a quote by Nancy Rothwell: "Use your head, but follow your heart." and the text "CREATE & INSPIRE". The banner also includes an image of a modern office with people working at computers. Below the banner, there are four categories: "1 Minute CPD", "Learning at Lunch", "Masterclasses", and "Pedagogy Seminars".

mystaffdevelopment.org

SEARCH mystaffdevelopment

PEDAGOGIC AND STAFF DEVELOPMENT PROGRAMME

HOME ABOUT US UPCOMING EVENTS

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<http://mystaffdevelopment.org/welcome-to-the-academy/digital-literacy/digital-literacy-online-learning/>

PEDAGOGIC AND STAFF DEVELOPMENT PROGRAMME

[HOME](#) [ABOUT US](#) [UPCOMING EVENTS](#)

Digital Literacy, Online Learning

The online learning resources for this month introduce four tools that offer different ways of presenting learning materials to your students.

Caroline introduces each tool in a short interactive video, which allows you to get a taste of what each one can offer you and your students. If you want to know more, there are also self-directed learning resources that will provide greater detail on each of the tools. University of Manchester staff could also visit the Best Practice Hub on Blackboard to see how these tools are used in practice. If you wish to make use of these tools in your teaching, you should contact the FBMH eLearning team for assistance.

Follow these links to find the online learning resources:

[iSpring](#)

[Nearpod](#)

[Playposit](#)

[Softchalk](#)

Calendar

< Nov - Dec 2018 >

Masterclass: Teaching with Technology

November 21, 2018 1:00 pm - 4:00 pm
Room 3.210, University Place

Speaker: Caroline Bowsher

Book a place at: <https://www.eventbrite.co.uk/e/masterclass-teaching-with-technology-tickets-50857312591>

[See more details](#)

Pedagogy Seminar

November 27, 2018 12:00 pm - 1:00 pm
Room 2.217, University Place

Speaker: Caroline Bowsher

http://mystaffdevelopment.org/welcome-to-the-academy/digital-literacy/digital-literacy-online-learning/

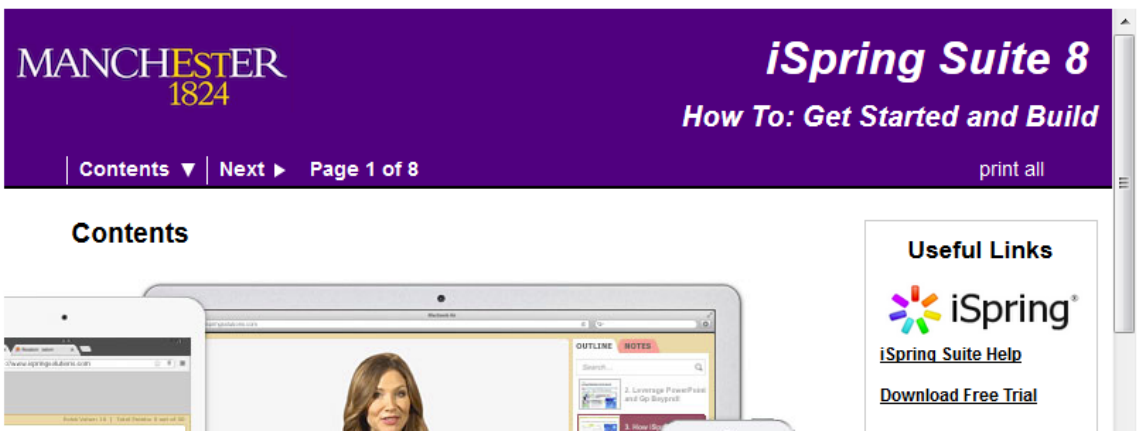
iSpring

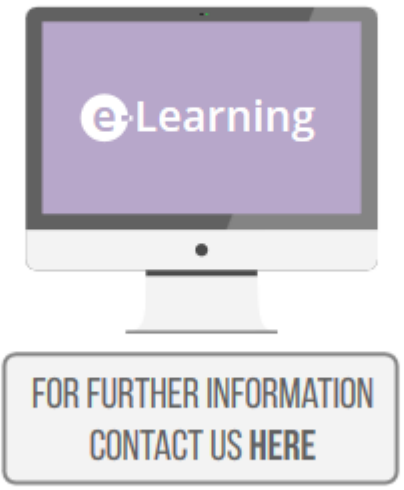
iSpring allows you to produce interactive learning tools from your PowerPoint slides. It is far more than a simple file converter, however, as it gives you the power to create timelines, scenario-based learning objects and more, then publish to the web or embed them in Blackboard. Caroline's presentation below was produced using iSpring, so you can see for yourself how it works.

Transcript (PDF)



If you would like to explore the possibilities of iSpring a little more, this guide will take you through the basics of converting your PowerPoint presentations into an interactive, multimedia learning resource for your students.





Faculty of Biology, Medicine and Health

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- < [PSS functions](#)
- > [Student Experience](#)
- eLearning**
- [Student Appeals and Complaints \(including fitness to practise\)](#)
- [Teaching and Learning](#)

Contact eLearning

Chat with the eLearning team

For ideas, questions, training and discussions around eLearning pedagogy

[Book a session now >](#)

eLearning support

Visit our support pages

[Read more >](#)

Report technical problems

For staff and students experiencing technical problems with eLearning

[Request LANDesk support >](#)

General office - STAFF ONLY

For urgent or quick enquiries call 0161 275 1112

Drop-in sessions

Staff and students can drop in for a 15-minute session with the eLearning team...

DigiLab

DigiLab is a place where you can:

- Try out new technologies like VR, 3D printing and robotics
- Chat to established tech companies, start ups and kickstarters
- Demo your own projects or get participants for research

It's run by the Library and takes place on the Lower Ground Floor of the AGLC.

For more information email ros bell
(digilab@manchester.ac.uk)