



CASE STUDY

Beyond lecture capture:
Panopto transforms
how students learn
and communicate

THE EVOLUTION OF LEARNING: A BIOLOGIST FLIPS THE CLASSROOM AT THE UNIVERSITY OF BIRMINGHAM

A SNAPSHOT OF THE CHALLENGE

It's the first morning on the first day of university for the latest cohort of freshers. A raft of new students sits in a hall eagerly awaiting their first lecture. An academic faces the room and asks themselves the question: "How do I engage with a lecture theatre of 300 students at 9am on a Monday morning?" It is a scene echoed across every university in the UK – and beyond.

In his role as Senior Lecturer and Head of Education at the University of Birmingham's School of Biosciences, Dr Jeremy Pritchard had found himself pondering just this question – what is the best way to engage with today's students? The inevitable follow-up question then presents itself: is the traditional lecture format still relevant for this generation of learners?

As Dr Pritchard explains: "While the primacy of the lecture as an educational tool has been challenged many times in recent years, the simple truth is that students still expect lectures to form a core part of their university experience. One particular issue with this is that the dynamic of the lecture hall reinforces the idea of the lecturer (and perhaps particularly the science lecturer) as the arbiter of knowledge and students as the passive recipients."

USING PANOPTO TO RETHINK THE LECTURE

The University of Birmingham had been using Panopto's lecture capture and video management software for some time and when Dr Pritchard began recording his lectures, he started to see possibilities to curate his learning materials in new ways that would suit his students better.

UNIVERSITY OF BIRMINGHAM

ABOUT | The University of Birmingham was established by Queen Victoria by Royal Charter in 1900 and was the UK's first civic or 'redbrick' university. The University's student body is an international community drawing on expertise and cultural influences from 115 different countries. The University has always welcomed students from all backgrounds and walks of life on an equal basis, supporting and guiding them through their university experience. Characterised by a tradition of innovation, research at the University has broken new ground, pushed forward the boundaries of knowledge and made an impact on people's lives.

TOTAL ENROLMENT | 30,660

WEBSITE | www.birmingham.ac.uk

“I was interested in how you can use new teaching approaches to put some of the responsibility back on the student and open up time for more group work that will build students' transferable skills.”

— **Dr Jeremy Pritchard**,
Senior Lecturer & Head of Education,
School of Biosciences, University of Birmingham



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“Using Panopto to flip the classroom gave my students the chance to view the material multiple times if they needed to, allowing them to learn the content at their own pace. It also freed up that lecture session to focus on other things. My students loved it and I got lots of positive feedback.”

— **Dr Jeremy Pritchard**,
Senior Lecturer & Head of Education,
School of Biosciences, University of Birmingham

“One really crucial turning point was when I was thinking about how to deliver my session on the Hardy-Weinberg principal – an equation used to calculate the genetic variation in a population,” Dr Pritchard reflects. “This had long formed part of my lecture series, but in fact it’s actually hard to lecture didactically about it. It’s a tricky topic and one that students absorb at different rates. Once I started recording my lectures, I decided to use the flipped classroom approach to deliver the Hardy-Weinberg session, capturing the lecture and then getting my students to watch it in advance of our scheduled slot.”

Dr Pritchard sees this as simply an evolution of the lecture, rather than signalling its demise. He goes on to explain: “By flipping the classroom, you are not necessarily throwing the traditional face-to-face lecture out completely – in fact it gives academics the chance to reinvent the lecture as an inspirational tool. That question of engagement is key here. Some material just doesn’t lend itself to the ‘performance’ of a lecture and so if you can find another way to deliver that content, it’s better for both academics and students.

“Of course, flipping the classroom does entail behavioural change for academics. When the lecturer realises that his or her lecture slot has actually turned into an interactive discussion or an opportunity for a workshop because the lecture has already been watched online, they need to be geared up to facilitate that kind of learning. It will mean a radical rethink of the way in which academics approach their teaching. However, the positive benefits for both lecturers and learners are significant.

“As increased fees raise students’ expectations on how much contact time they should be getting from their lecturers, technology can play an important role in freeing up academics’ time so that students’ needs can be better met.”

OTHER INNOVATIONS WITH PANOPTO

As well as flipping the classroom, another highly successful use of Panopto at the University of Birmingham has been the introduction of recorded feedback to students on their assignments. This involves an academic recording themselves talking through a students’ work while using screen capture to highlight particular passages in their essays. Dr Pritchard explains: “I find myself giving more nuanced, in-depth feedback when I record myself compared to when I just write comments on a students’ essay. I also say more about the positives, rather than just focusing on the areas where the student needs to improve.”

“My students really appreciate their Panopto video feedback – it helps them focus on their strengths and weaknesses more clearly.”

— **Dr Jeremy Pritchard**,
Senior Lecturer & Head of Education,
School of Biosciences, University of Birmingham

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