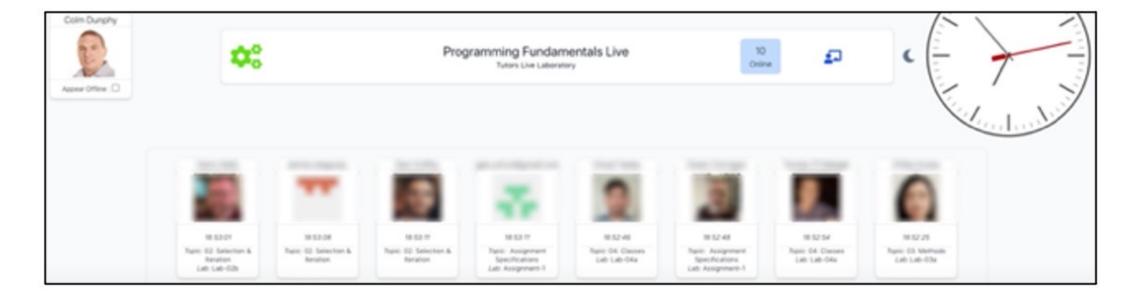


Learning Analytics

tutorsLIVE

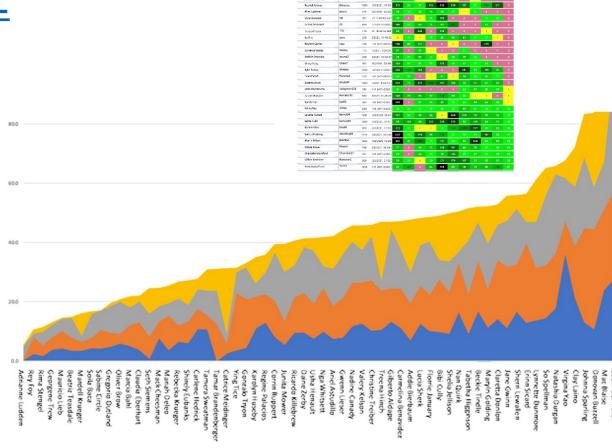


http://bit.ly/TutorsLIVEdemo

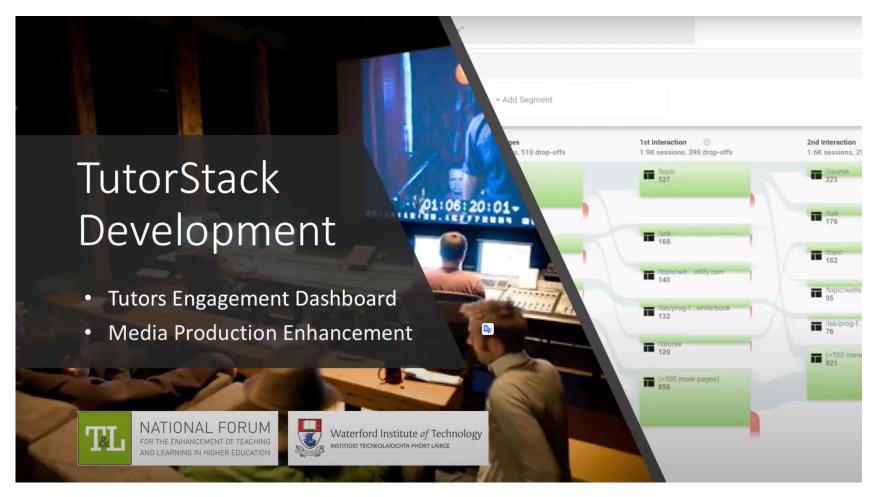
tutorsTIME

bit.ly/tutorsTIME





National Forum funding 2020



Application

bit.ly/NFETL2020

Interim Report

https://youtu.be/-hOG1u8WDFE

WIT Higher Diploma in Computer Science

- WIT's first fully online programme
- Home of TutorStack Development
- http://bit.ly/hdip-cs-promo
- http://bit.ly/HDipCS-ProjectShowcase2020

WIT Hdip in Computer Science Student Surveys

- https://www.slideshare.net/ColmDunphy1/hdip-survey2022
- https://www.slideshare.net/ColmDunphy1/wit-hdip-survey-2021
- https://www.slideshare.net/ColmDunphy1/wit-hdip-student-survey-2000
- https://www.slideshare.net/ColmDunphy1/h-dip-student-survey-results-2019
- https://www.slideshare.net/ColmDunphy1/h-dip-student-survey-results-2018

TutorStack

A multi-layer technology stack providing a modular, free and/or open solution for **BOLD** without product or vendor lock-in



BOLD: Blended and/or Online Digital

Engagement Dashboard

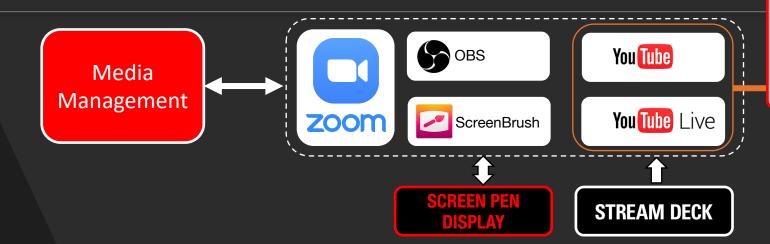
Core Technologies

tutors-ts

moodle \otimes socrative

slack

- 1. Instruction Materials
- 2. Communications/Community
- 3. Assessment & Feedback
- 4. Media



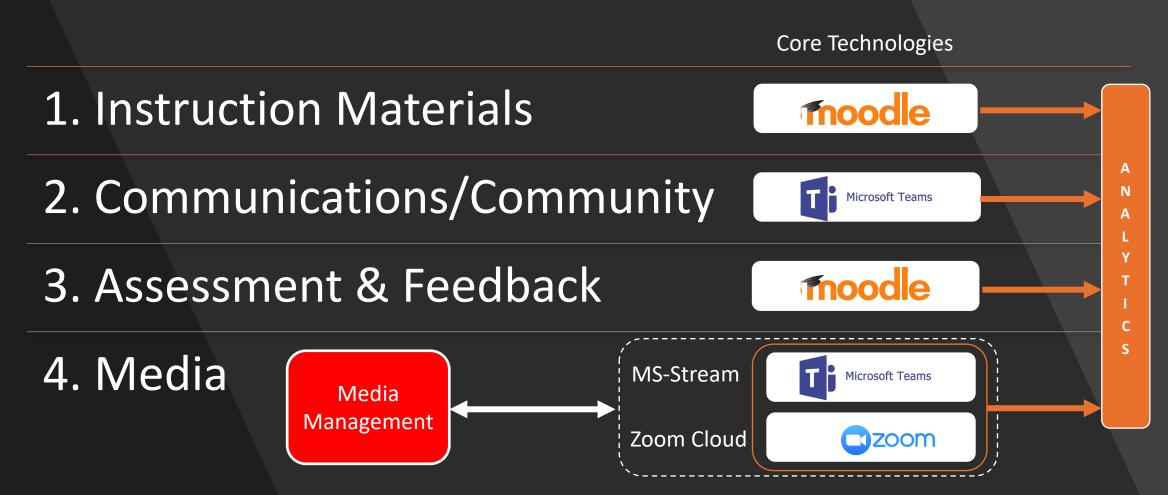
WIT TutorStack MoodleTeams





WIT TutorStack 20/21

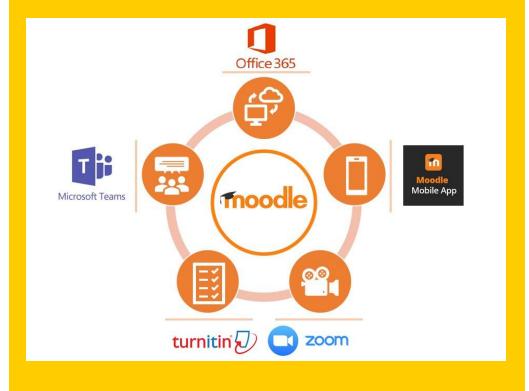




MOODLE AT THE CORE OF DIGITAL LEARNING

Moodle remains at the core of digital learning in WIT.

Third Party integrations like **Microsoft Teams**, **Office 365**, **Turnitin** and **Zoom** will supplement Moodle's extensive functionality.



WIT'S TUTORSTACK

Guided by WIT's award winning TutorStack Framework for educational technologies, CTEL recommends lecturers use these platforms for online/blended delivery in September 2020.

1. Instructional Material



2. Community & Communication



3. Assessment & Feedback



4. **Media** (Live Classes & Recordings)



TECHNOLOGY FOR
ONLINE AND BLENDED LEARNING
IN SEPTEMBER 2020

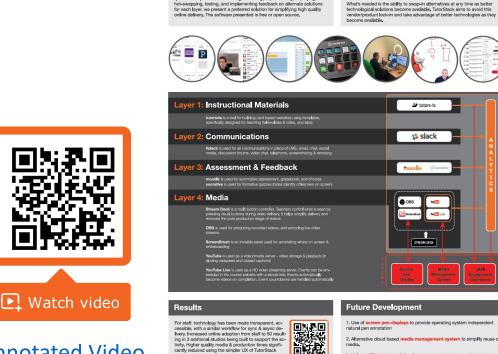








Posters outside FTG 08



Feedback from students highlights excellent #SX, increased demand for live online classes with pre

TutorStack is a integrated technology solution which splits the key ele-ments of delivering online into 4 layers (Instructional Materials, Communi-

cations, Assessment & Feedback, and Media), Technologies were chose

based on their effectiveness, cost, aesthetics, ease of use, and functionali-ty. After two years of researching, reviewing, implementing, deploying,

TutorStack 2019

multi-layer technology stack providing a modular, free and/or open



WIT CTEL PODS

liver blended & online courses, in high definition sync & async modes

TV studios can be intimidating spaces. WIT CTEL PODs are a reaction to the uneasiness felt when trying to create online video based classes espe cially for novices. A ground-up demand from staff for simple, quiet, private spaces, to experiment, practice and deliver online, resulted in a room being set aside as a make or break lab for practising online delivery in private with support if needed. A key feature was to use inexpensive equipment pro-ducing good enough quality without tying up more elaborate expensive stu-dios and technicians. This makes the solution scalable. Such has been the success that after just one year, the original space was replicated as demand grew, and two more were established. The rooms were renamed POD1, POD2 and POD3 hence the poster title. They contain the hardware in a ready-to-go state and support online delivery, including the technolo

Starting with a powerful PC & monitor, running Adobe Connect, the mic & webcam were changed to improve quality. Adobe Connect was substituted for TutorStack (OBS/YouTube for high quality video). OBS supports Chro-makeying so a green screen background was added. Different lighting setups were trialled & the ring light was favoured. After a semester of testing, the message was clear, single handed online video delivery was too difficult for most. Two pieces of hardware solved this problem; An Inogeni graphics capture card enabled lectures to present the way they normally do coding and streaming could be off-loaded to the powerful PC freeing up resources on the lecturer's laptop. Stream Deck completed the user experience by providing a simplified interface to OBS and YouTube with technical details abstracted away into resuable profiles & templates



Results

The PODs now provide a ready-to-go hardware setup to accompany the free/open TutorStack modular software solution with it's simpler user experience UX, which has made the technology transparent, accessible, less mysterious, and with a lower cognitive load. Online video teaching is now seen as feasible with increased online adoption by teaching staff utilising seeri as reasine with increased unine adoption by geadining start unining the PODS now numbering 50, and a growing community of practice (COP). Higher quantities of higher quality media artefacts are now being produced regularly, and production & publishing times have been significantly reduced. Setup times for new practitioners have been reduced. Workflows for sync & async delivery are now very similar.

Future Development

ments including cameras and permanent green

4. Installation of a lightboard in one of the pods

VR 360 Image

🔃 View gallery

Colm Dunphy, Dept. of Computing & Mathematics, WIT - cdunphy@wit.ie





Annotated Video (Sample Output)

1. Use of screen pen displays to provide operating system independent

For many, Virtual Learning Environments (VLEs) have become end points

rather than starting points for online delivery. The limitations of a one size

fits all solution inevitably comes to the fore including over complexity, ass-

2. Alternative cloud based media management system to simplify reuse of

Utilize xAPI to bring analytics & engagement data from each layer together in an engagement dashboard. This will provide easier, better and more complete learner views to aid in early intervention systems for learner.

Colm Dunphy, Dept. of Computing & Mathematics, WIT - cdunphy@wit.ie

National Forum Funding – Application Videos

bit.ly/NFETL2020

https://youtu.be/-hOG1u8WDFE

online / remote / home video studio setup

bit.ly/onlinevideosetup

As part of the TutorStack layer2 Communications/Community we've integrated Zoom with Slack. In Aug 2019, Slack ended development of remote screen sharing instead leaving it to the leading experts ZOOM. **Zoom** is particularly good for latency free live introductions, Q&A, and very natural discussion (unlike MS-Teams). Breakouts enable Group Discussion. Zoom also integrates with the rest of the TutorStack e.g. our preexisting media layer technologies can be seen as a virtual webcam within Zoom. If using Slack for communications then disable Zoom chat. The following guides were produced to help people utilize Zoom's features quickly:

Zoom QuickStart

https://www.youtube.com/watch?v=QlyM7h1paPk

Zoom Chat Settings

https://youtu.be/Q7KVIva3xqQ

Zoom Breakout Rooms

https://www.youtube.com/watch?v=w8Uwy-9YXkY

Zoom 5.2 has great features for teachers - suppress fan noise, lighting, resizable and movable green screened video over presentations to name a few.

https://gadgets.ndtv.com/apps/news/zoom-update-version-5-2-filters-appearance-lightning-controls-reactions-noise-suppression-features-2274677



TutorStack Poster

https://www.slideshare.net/mobile/ColmDunphy1/tutorstack2019

Pods Poster

https://www.slideshare.net/mobile/ColmDunphy1/wit-ctel-pods

Pods VR 360

VR 360 Image

WIT Online Video Class Sample Output

<u>Annotated Video</u>

StreamDeck demo

https://youtu.be/22-VmGDLqbA

EdTech'19 Gasta Slides

https://www.slideshare.net/mobile/ColmDunphy1/edtech19colmdunphydataprojectorgasta

EdTech'19 OnlineVideo Talk

https://www.slideshare.net/mobile/ColmDunphy1/edtechie-2019-colm-dunphy-onlinevideo-what-why-how

Slack

https://www.slideshare.net/ColmDunphy1/learning-from-industry-a-lesson-in-slack-for-educators

Tutors-next

https://aurelia.io/learn#books

Jennifer Burke Entry

https://youtu.be/wgy0hudxuN4

WIT Seminar - if you can use a data projector you're ready for online https://www.youtube.com/watch?v=8L6kZ9ZYGKM&t=395s

HDip in CS Surveys – TutorStack in Action

https://www.slideshare.net/ColmDunphy1/h-dip-student-survey-results-2019

https://www.slideshare.net/ColmDunphy1/h-dip-student-survey-results-2018

TutorStack Presentation to WIT Computing & Maths Department - Meeting Sept 2019 https://www.slideshare.net/ColmDunphy1/tutorstack19-dept-meeting

National Forum for the enhancement of Teaching & Learning - TutorStack funded project http://bit.ly/NFETL2020

National Education Awards 2020:

Best use of ICT



EdTech '18: Async v sync? who wins? students decide https://youtu.be/dvi0PLU-xdw

EdTech '18: Learning from industry a lesson in #Slack for educators https://youtu.be/fQU63NwrQ6c

EdTech '18: Having great #SX online. An evolution of online course delivery https://youtu.be/QnWPtHE9IgA