Teaching From Home

Equipment, methods and systems to support teaching delivery during COVID-19
We will cover

- Teaching Delivery (Panopto and Moodle)
- Creating and Capturing Content
- Collaborative Tools
- Moodle Features for Enhanced Learning
- Q&A
Delivery System
You can...

<table>
<thead>
<tr>
<th>Create your video content</th>
<th>Store and provide online video access</th>
<th>Manage your content</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Panopto Recorder software</td>
<td>• Cloud repository</td>
<td>• Access control</td>
</tr>
<tr>
<td>• Webcam, PowerPoint, screen-share etc.</td>
<td>• Enhanced web-based player</td>
<td>• Video editing</td>
</tr>
<tr>
<td>• <strong>Upload</strong> existing videos</td>
<td>• Moodle integration</td>
<td>• Bookmarks</td>
</tr>
<tr>
<td></td>
<td>• Android/iOS apps</td>
<td>• Captions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Publishing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Embedding</td>
</tr>
</tbody>
</table>

https://support.panopto.com/

https://cambridgelectures.cloud.panopto.eu
Teaching From Home

Equipment, methods and systems to support teaching delivery during COVID-19
Panopto downloads
https://support.panopto.com/s/article/Enable-Podcast-Downloads

Panopto video embed

VideoJS embed

Podcast settings

Panopto Block
Creating Content

http://help.eng.cam.ac.uk/audio-visual
## Recording Videos

<table>
<thead>
<tr>
<th></th>
<th>WINDOWS (10)</th>
<th>OSX (CATALINA)</th>
<th>LINUX</th>
<th>iOS</th>
<th>ANDROID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panopto Recorder</td>
<td>✔️</td>
<td>✔️</td>
<td>✗</td>
<td>✗</td>
<td>Upload only</td>
</tr>
<tr>
<td>Open Broadcaster Software (OBS)</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>MS PowerPoint Recording</td>
<td>✔️</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Native screen recording</td>
<td>Some models</td>
<td>✔️</td>
<td>✗</td>
<td>✔️</td>
<td>Developer mode</td>
</tr>
<tr>
<td>3rd party screen recording</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>
Downloading Panopto Recorder

https://cambridgelectures.cloud.panopto.eu/

• Logging in
OSX

Windows
Panopto Recorder Features

Primary video (webcam)

- HD Pro Webcam C920
- Facetime HD Camera
- BenQ LCD
- Snap Camera
- None

Secondary video (screen)

- HD Pro Webcam C920
- Built-in Microphone
- None
- nuraphone 390
- Snap Camera
- HD Pro Webcam C920

Microphone/audio

- HD Pro Webcam C920
- Built-in Microphone
- None
- nuraphone 390
- Snap Camera
- HD Pro Webcam C920

Create table of contents

- None
- Snap Camera
- HD Pro Webcam C920
- Facetime HD Camera
- BenQ LCD

Slide capture

- Record PowerPoint
- Record Keynote
- Slides
**No approval required**

**BUT**

You must *manually* make the session available
No Panopto recorder available so use:

https://obsproject.com/

http://cambridgelectures.cloud.panopto.eu
1. Capture

iOS

[Image of iOS screen showing screen recording options]

Android

[Image of Android screen showing screen recording options]


https://support.panopto.com/

2. Upload (via Panopto app)

[Image of Panopto app interface]
Video Publishing Management

http://cambridgelectures.cloud.panopto.eu

No email reminders!
Video Editor

- Simple editor
- Non-destructive editing
- Top/tail, cuts, inserts

https://support.panopto.com/s/article/Edit-a-Video
Panopto "Video Podcast"

The video that is presented in **tablet/phone app, website embeds** and/or **downloads**

Downloads restricted by default

[https://support.panopto.com/s/article/Enable-Podcast-Downloads](https://support.panopto.com/s/article/Enable-Podcast-Downloads)

Contact av-support@eng.cam.ac.uk to enable **student downloads**
Publishing

Set availability

Availability

A session can be made available after a start date and before an end date. These settings replace any availability settings on the parent folder. A session can also be made available immediately by saving it in the editor.

Session becomes available
- now
- starting 04/17/2020
- with its folder (never)
- with its folder (forever)
- until 04/23/2020

Session remains available
- forever
- with its folder (forever)
- until 04/23/2020

Panopto block

Panopto video embed
Equipment

"Good enough is great."

Minimum
- Laptop/computer/tablet/phone
- Webcam + mic
- Capture software
- Content e.g. PowerPoint, Keynote, screen

Enhanced
- Headsets
- Higher quality cameras/mics
- Touch screens/writing surfaces
- Virtual whiteboards
- Visualizers

-Support-
Divisional COs
AV Support av-support@eng.cam.ac.uk
ICS Helpdesk helpdesk@eng.cam.ac.uk
Capturing Writing

Digital

TOUCH SCREENS/Writing TABLETS

https://openboard.ch/
https://whiteboard.microsoft.com/
https://jamboard.google.com/
PowerPoint + Ink Tools

Traditional

CAPTURING PEN AND PAPER

• Visualizer
• Webcam
• Smart phone

HOW TO CAPTURE?
Capturing PEN AND PAPER

WEBCAM METHOD
Capturing PEN AND PAPER

SMARTPHONE METHOD

DroidCam
Android > Windows + Linux
https://www.dev47apps.com/

EpocCam
Android/iOS > OSX
http://www.kinoni.com/

NDI
iOS > Windows
https://ndi.tv/tools/

Or VIDEO CALL + SCREEN CAPTURE
Collaborative Tools
Supervisions/Examples Classes

https://www.cctl.cam.ac.uk/teaching-remotely
https://www.cctl.cam.ac.uk/files/cctl_moving_supervisions_online.pdf

Key Messages

- The most obvious approach to supervising online is to replicate what you and your students would normally do, using video conferencing.
- There are important considerations concerning the requirements of disabled students and staff including those with neurodiverse profiles.
- Try to keep things simple and flexible, with fall-back options in case of difficulties.
Video conferencing for teaching

Microsoft Teams
https://www.cctl.cam.ac.uk/sites/www.cctl.cam.ac.uk/files/conducting_a_supervision_with_teams.pdf

Google Meet
https://www.cctl.cam.ac.uk/sites/www.cctl.cam.ac.uk/files/conducting_a_supervision_with_google_meet.pdf

Zoom
https://zoom.us
NOTE 40 minute time limit on free version

Others
Collaborative applications

Google Jamboard
https://jamboard.google.com/

Padlet
https://en-gb.padlet.com/

MS Whiteboard
https://www.office.com

Miro
https://miro.com/
Executive summary

The current consumer electronics market is experiencing unprecedented change—and with that changes come great opportunity. Together, Litware and Contoso are ideally poised to take a market leadership position and deliver quality, consistency, and innovation to their customers.

Increasingly, people communicate mostly on their devices in hand. They are always on and always connected, so they require more from these devices—more power, more speed, more seamless integration. The industry challenge remains clear: Understand your customers, anticipate their future requirements, and deliver above their expectations.

That’s why a Litware-Contoso partnership makes sense. No one in the consumer electronics market has a better understanding than Litware of its long history of exciting innovation, turbulent disruption, and remarkable growth. And no one in the market better navigates through these changes and empowers its partners like Contoso.

Why Contoso?

Of all the companies that Litware can work with, what makes Contoso different? Four key points, discussed in more detail below, prove how our partnership would be unique and powerful.

Microsoft OneDrive
https://help.uis.cam.ac.uk/service/collaboration/office365

Microsoft Teams
https://help.uis.cam.ac.uk/news/teams-launch

Google Drive
https://help.uis.cam.ac.uk/service/collaboration/g-suite
Moodle Tools for Enhanced Learning

https://www.vle.cam.ac.uk/mod/page/view.php?id=3869561
Forums

- Enables students to ask questions
- You to answer them
- Encourages discussions to develop

Forum

A standard forum for general use
Force student to get an email or not when someone posts (Forced Subscription vs Optional Subscriptions)
CAN NOT be anonymous

Open Forum

Standard forum for general use
Can allow private replies from teacher to student, not between student and student
Default is anonymous but anyone can choose to reveal their name
Can force students to get an email or not (forced vs optional subscription)
Forums

Open Forum
Standard forum for general use

Can allow private replies from teacher to student, not between student and student

Default is anonymous but anyone can choose to reveal their name.

Can force students to get an email or not (forced vs optional subscription)

2 discussions

Discussion point
10 mins ago

Emma Etteridge
Non anonymously

Lecture one
15 mins ago

Emma Etteridge
Non anonymously

Manage forum subscriptions
Lecture one
21 hours ago

Was there anything that was unclear in this lecture, or anything that you might want to know a little more about?

Add your reply

Your subject

Type your post:

Submit
Quiz

- Test students learning/understanding

```
<table>
<thead>
<tr>
<th>Question 1</th>
<th>Correct</th>
<th>Mark 1 out of 1</th>
<th>Flag question</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
```

```
Which of the tree lists (in linked list format) correspond to the tree above?

Select one or more:
- [ ] a. 0, 1, 2, 3, 4, 5, 3 (This is correct)
- [ ] b. 0, 1, 2, 3, 4, 4
- [ ] c. 1, 0, 1, 2, 3, 3, 4, 4
- [ ] d. 0, 1, 1, 2, 4, 5, 5, 4
```

```
Quiz navigation
Trees and Tables
1/2

Shannon-Fano: only answer first two or last question
3/4/5

Compressing a File
6/7/8/9/10

Huffman Coding
11/12/13

Arithmetic Coding
14/15/16

Overall Conclusions
17

Show one page at a time
Finish review
```
Subject to cover in this example class

Pick your top two subject to cover in the next session

- Notation for stress
- Complementary shear
- Mohr's circle of stress
- Mohr's circle of strain

Anonymous results will be published after you answer.

Save my choice

Pose simple voting type questions to help decide things
What detail shall we cover on the 6th May?

Mode: Anonymous

What main area would you like more help with?

○ Physical properties of structural materials
○ Stress and strain
○ Beam behaviour

There are required fields in this form marked 1 .

Next page  Cancel

What detail shall we cover on the 6th May?

Mode: Anonymous

You chose Stress and strain, which sub area are you really struggling with?

○ Stress-strain relations for isotropic elastic solids
○ Planar transformation equations for stress
○ Principal stresses in 3 dimensions

There are required fields in this form marked 1 .

Previous page  Submit your answers  Cancel

• For more complicated voting
Scheduler

• For booking one to ones or small group chats/meetings

Booking 1-2-1 appointments

Slots
You can add additional appointment slots at any time.

<table>
<thead>
<tr>
<th>Actions</th>
<th>Add slots</th>
<th>Delete slots</th>
<th>Location</th>
<th>Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>Start</td>
<td>End</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monday, 20 April 2020</td>
<td>10:00 AM</td>
<td>10:15 AM</td>
<td>MS Teams</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10:15 AM</td>
<td>10:30 AM</td>
<td>MS Teams</td>
<td>EmmaT@<a href="mailto:x@example.com">x@example.com</a></td>
</tr>
<tr>
<td>Monday, 27 April 2020</td>
<td>10:00 AM</td>
<td>10:15 AM</td>
<td>MS Teams</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10:15 AM</td>
<td>10:30 AM</td>
<td>MS Teams</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10:30 AM</td>
<td>10:45 AM</td>
<td>MS Teams</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10:45 AM</td>
<td>10:59 AM</td>
<td>MS Teams</td>
<td></td>
</tr>
<tr>
<td>Monday, 4 May 2020</td>
<td>10:00 AM</td>
<td>10:15 AM</td>
<td>MS Teams</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10:15 AM</td>
<td>10:30 AM</td>
<td>MS Teams</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10:30 AM</td>
<td>10:45 AM</td>
<td>MS Teams</td>
<td></td>
</tr>
</tbody>
</table>

After you have had an appointment with a student, please mark them as “Seen” by clicking the checkbox near to their user picture above.

6 students still need to make an appointment

Schedule by student

Send invitation — Send reminder
### Other Moodle Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glossary</td>
<td>Crowdsource term/ definition on terms in the module – to assess understanding</td>
</tr>
<tr>
<td>Wiki</td>
<td>Collaborative tool to create documents on subjects</td>
</tr>
<tr>
<td>OU Blog</td>
<td>Use blog posts to track and outline stages in a project</td>
</tr>
<tr>
<td>Lesson</td>
<td>A contained object that presents information and then tests that learning</td>
</tr>
<tr>
<td>H5P</td>
<td>HTML5 Package - create content such as interactive videos, quizzes and presentations.</td>
</tr>
</tbody>
</table>
Not all students will have the bandwidth or the technology to be able to open or view everything you provide for them.

There is always email.
Between the Cambridge University Libraries and publishers we have greater access to online resources

https://www.lib.cam.ac.uk/research/librarysearch/university-libraries-are-all-open-online

Rules have been relaxed for reuse of print resources

Contact the library for details

library@eng.cam.ac.uk
Q&A

av-support@eng.cam.ac.uk
moodle-support@eng.cam.ac.uk
Useful resources

- CUED AV Support Teaching from Home [https://help.eng.cam.ac.uk/audio-visual/teaching-from-home/](https://help.eng.cam.ac.uk/audio-visual/teaching-from-home/)
- CCTL Teaching remotely [https://www.cctl.cam.ac.uk/teaching-remotely](https://www.cctl.cam.ac.uk/teaching-remotely) reading the supervision guide is useful as a bases for preparing to teach online
- Libraries access to online resources [https://www.lib.cam.ac.uk/research/librarysearch/university-libraries-are-all-open-online](https://www.lib.cam.ac.uk/research/librarysearch/university-libraries-are-all-open-online)
- Panopto [https://cambridgelectures.cloud.panopto.eu](https://cambridgelectures.cloud.panopto.eu)
- Panopto Support [https://support.panopto.com/](https://support.panopto.com/)
- Panopto downloads instructions [https://support.panopto.com/s/article/Enable-Podcast-Downloads](https://support.panopto.com/s/article/Enable-Podcast-Downloads)
- Panopto basic recoding [https://support.panopto.com/s/article/basic-recording-1](https://support.panopto.com/s/article/basic-recording-1)
- Panopto recording with a Mac [https://support.panopto.com/s/article/basic-recording-1](https://support.panopto.com/s/article/basic-recording-1)
- Open Broadcast software [https://obsproject.com/](https://obsproject.com/)
- Panopto editing a video [https://support.panopto.com/s/article/Edit-a-Video](https://support.panopto.com/s/article/Edit-a-Video)
- Panopto enabling podcast download [https://support.panopto.com/s/article/Enable-Podcast-Downloads](https://support.panopto.com/s/article/Enable-Podcast-Downloads)
Acknowledgements

Cambridge Centre for Teaching and Learning
Andrew Gee
Tawfique Hassan
Seb Savory
Colm Durkan
Jossy Sayir
Meg Tait
CUED ICS Team
Lewis Grantham
Melissa Rielly
Jessica Comber-Chaney
Frank Wall
Abraham Martin
Dr Rich Wareham
UIS Teaching & Learning Systems