

# Teaching From Home

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

### We will cover





# Delivery System



### https://support.panopto.com/

### You can...

# Create your video content

- Panopto Recorder software
- Webcam, PowerPoint, screen-share etc.
- Upload existing videos

Store and provide online video access

- Cloud repository
- Enhanced webbased player
- Moodle integration
- Android/iOS apps

# Manage your content

- Access control
- Video editing
- Bookmarks
- Captions
- Publishing
- Embedding



### Panopto Web Player

Table of contents Discussion section Note taking Transcriptions/captioning Optimized for PowerPoint/Keynote





#### Panopto downloads https://support.panopto.com/s/article/Enable-Podcast-Downloads

#### Panopto video embed





#### Podcast settings



#### Panopto Block



#### **Useful Links**

Diagon find holow links to



# Creating Content

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

# Recording Videos

	WINDOWS (10)	OSX (CATALINA)	LINUX	iOS	ANDROID
Panopto Recorder			×	Upload only	Upload only
Open Broadcaster Software (OBS)				X	X
MS PowerPoint Recording		X	×	×	X
Native screen recording	Some models		X		Developer mode
3 <sup>rd</sup> party screen recording					

# Downloading Panopto Recorder



### Windows

~



OSX

# Panopto Recorder Features

#### Primary video (webcam)



#### Secondary video (screen)



<u>https://support.panopto.com/s/article/basic-recording-1</u> <u>https://support.panopto.com/s/article/Recording-with-Panopto-for-Mac</u>

https://support.panopto.com

#### Microphone/audio





#### Slide capture

# Slides Record PowerPoint Record Keynote

#### Creates table of contents

ontents	Teaching From Home	0:05
iscussion	We will cover	0:10
lotes lookmarks	Delivery System	0:14
	https://cambridgelectures.cloud.panopto.eu	0:16
	https://cambridgelectures.cloud.panopto.eu	0:19
	Panopto Web Player	0:21
	Picture of embedded moodle video	0:23
	Panopto Recorder	0:25
	OSX	0:27

# Panopto Video Folders

		· · · · ·		Manage Recordings
Direc	t access to your course folders	s from the recorder	Create New Recording	Panopto
Choose fo	older and session name	Manage Recordings	Only recordings stored on this computer are	shown below. ? Signed in to cambridgelectures.cloud.panopto.eu Sign Out
Folder	My Folder		Session	Date v Length Status
Session	Thu, Apr 16 2020 at 10:49 AM	Join Session 👻	offline Demo 2 Demo	Today, 10:43:16         00:00:06         Offline Recording           Yesterday, 14:45:17         00:00:37         Completed           Yesterday, 14:33:52         00:01:18         Completed
Webca	ist		Wed, Apr 15 2020 at 2:24 PM Mon, Mar 30 2020 at 12:17 PM	Yesterday, 14:25:21 00:01:03 Completed 30/03/2020, 12:19:42 00:00:24 Completed
Choose folde	er and session name	Manage Recordings		Manage Onlin
Folder	Q Choose a folder or start typing to search		Recording Details	Preview Primary Video Secondary 1 Secondary 2
Session	Quick Access		Folder: Offline Recording Session: offline	
U Webcast	All Folders Eng: Lecture Capture: Lecture Capture		Streams: Primary, Secondary 1 Webcast: No	
	<ul> <li>Engineering Archive</li> </ul>		Status: Offline Recording	
	IA: Thermofluids: 1P1: Thermofluid Mechanics			
	<b></b>			
			Choose Folder and	Upload - Actions
1			24	
	Linked to Panopto Moodle	olock		
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				val required**
	Offline Recording C Refresh List	Create New Folder	D	117
			D	UT

You must **manually** make the session available

# Recording on Linux

### No Panopto recorder available so use:



# **Recording on Tablets**

### 1. Capture

#### iOS



https://www.panopto.com/blog/record-yourphone-screen-in-ios11-and-share-with-panopto/

#### https://support.panopto.com/

#### Android



### 2. Upload

#### (via Panopto app)



# Video Publishing Management



# Video Editor



**Simple editor** 

INVESTICAL STREET, OF

Teaching From Home

Equipment, warmals and suggest basiling advants \$25/13-34

- **Non-destructive editing**
- Top/tail, cuts, inserts •

https://support.panopto.co m/s/article/Edit-a-Video

# Panopto "Video Podcast"

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



# Publishing



#### Set availability

# Thoodle

#### Panopto block

1P1: Thermofluid Mechanics

#### Panopto video embed



ce any availability setti	ngs on the parent	date and before an end date. These settings folder. A session can also be made available
sion becomes ava	ilable	
with its folder (neve	er) 1:26pm	Dublin, Edinburgh, Lisbon, London
sion remains avail	able	
with its folder (fore	() () () () () () () () () () () () () (	Dublin, Edinburah, Lisbon, London
	ace any availability setti ediately by saving it in t sion becomes ava now with its folder (neve starting 04/17/2020 sion remains avail orever	ace any availability settings on the parent ediately by saving it in the editor. sion becomes available now with its folder (never) starting 04/17/2020 1:26pm sion remains available orever with its folder (forever)

Panopto Live Sessions No Live Sessions Completed Recordings IA: Thermofluid Mechanics (Atkins/Hall\_CA) IA: Thermofluid Mechanics (Atkins/Hall\_CA) IA: Thermofluid Mechanics (Atkins/Hall\_CA) [Show All] Links

Course Settings Download Recorder(Windows | Mac)

**Useful Links** 

Diagon find holow links to

# 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 <u>av-support@eng.cam.ac.uk</u> ICS Helpdesk <u>helpdesk@eng.cam.ac.uk</u>

# **Capturing Writing**

### Digital

#### TOUCH SCREENS/WRITING TABLETS



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

#### TOUCH SCREEN/WRITING TABLET/STYLUS RECOMMENDED

### **Traditional**

#### CAPTURING PEN AND PAPER



- Visualizer
- Webcam
- Smart phone

### **HOW TO CAPTURE?**

# Capturing PEN AND PAPER



# Capturing PEN AND PAPER

### **SMARTPHONE METHOD**







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

#### DroidCam



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

#### EpocCam





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/condu cting a supervision with teams .pdf



### zoom

#### **Google Meet**

https://www.cctl.cam.ac.uk/sites/ww w.cctl.cam.ac.uk/files/conducting\_a\_s upervision\_with\_google\_meet.pdf

### Zoom

### https://zoom.us

NOTE 40 minute time limit on free version

#### Others

https://www.skype.com/

https://talky.io/

https://appr.tc/

# Collaborative applications





### **MS Whiteboard**

https://www.office.com

### **Google Jamboard**

https://jamboard.google.com/



#### Miro

<u>https://miro.com/</u> <u>https://help.miro.com/hc/en-</u> <u>us/articles/360017730473-Education-Plan</u>



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

# Working together on documents





### **Microsoft OneDrive**

<u>https://help.uis.cam.ac.uk/service/collaboration/office365</u>





**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



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?



0 replies

#### Add your reply

Your subject					
Type your post					
Browse No files selected.					
	Private r				
	Reveal yourself in this				



Use advanced editor and additional options

 $\sim$ 

### Quiz



• Test students learning/understanding

Started on	Wednesday, 8 November 2017, 12:41 PM	Quiz navigation
	Finished	Trees and Tables
Completed on	Wednesday, 8 November 2017, 12:43 PM	1 2
Time taken	2 mins 22 secs	
Marks	10/18	Shannon-Fano: only answer first two OR last question
Grade	53 out of 100	
Feedback	Please provide feedback on the lab and on the quiz via email an @cam.ac.uk), the forum on this site, or the anonymous feedback facility.	3 4 5
uestion <b>1</b> orrect lark 1 out of 1 <sup>7</sup> Flag uestion		Compressing a File
estion		



Mour annuar is correct

- 🖂 a. 0, 1, 1, 2, 2, 4, 4, 5, 3 🖌 This is correct!
- b. 0, 1, 1, 2, 2, 3, 3, 4, 4
- c. 1, 0, 1, 2, 2, 3, 3, 4, 4
- d. 0, 1, 1, 1, 2, 4, 5, 5, 4





Show one page at a time

Finish review

# Choice

×



Pose simple voting type questions to help decide things

#### Subject to cover in this example class

View 2 responses

#### Subject to cover in this example class

Pick your top two subject to cover in the next session

 Anonymous results will be published after you answer.

 □ Notation for stress □ Strain definition □ Complementary shear ☑ Mohr's circle of stress

 □ Mohr's circle of strain

 Save my choice

Your selection: Notation for stress; Complementary shear

Pick your top two subject to cover in the next session



### Feedback

What detail shall we cover on the 6th May?

• For more complicated voting

#### 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 () .



#### What detail shall we cover on the 6th May?

Mode: Anonymous

You chose Stress and strain, which sub area are you	Stress-strain relations for isotropic elastic solids
really struggling with?	Planar transformation equations for stress
	Principal stresses in 3 dimensions

There are required fields in this form marked (I) .

## Scheduler

#### Booking 1-2-1 appointments

• 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.

ction	is Add slots 🏠 👻	Delete slo	ots 🔅 🔭			
	Date	Start	End	Location	Students	Action
	Monday, 20 April 2020	10:00 AM	10:15 AM	MS Teams		1 O 🛃 (2)
		10:20 AM	10:35 AM	MS Teams	EmmaTest emmalouisejones27@gmail.com	û 🌣 🚑 🀤 (2
		10:40 AM	10:55 AM	MS Teams		ti 🗘 🚑 (2)
	Monday, 27 April 2020	10:00 AM	10:15 AM	MS Teams		ti 🔅 🚑 (2)
		10:20 AM	10:35 AM	MS Teams		â 🔅 🔐 (2)
		10:40 AM	10:55 AM	MS Teams	EAB RAES	a 🌞 🏜 🀤 (a
	Monday, 4 May 2020	10:00 AM	10:15 AM	MS Teams		💼 💠 🔐 (2)
		10:20 AM	10:35 AM	MS Teams		â 🌣 🚑 (2)
		10:40 AM	10:55 AM	MS Teams		1 0 4. (2)
ter yo	u have had an appointment wi	th a student pleas	se mark them as '	'Seen" by clicking	the checkbox near to their user picture above.	
			6 studen	ts still nee	d to make an appointment	
					ation — Send reminder	
che	edule by student					

# **Other Moodle Features**

Glossary	Crowdsource term/ definition on terms in the module – to assess understanding
Wiki	Collaborative tool to create documents on subjects
OU Blog	Use blog posts to track and outline stages in a project
Lesson	A contained object that presents information and then tests that learning
Н5Р	HTML5 Package - create content such as interactive videos, quizzes and presentations.

### Email



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

# Recommended reading

Between the Cambridge University Libraries and publishers we have greater access to online resources

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

Rules have been relaxed for reuse of print resources

Contact the library for details

library@eng.cam.ac.uk



<u>av-support@eng.cam.ac.uk</u> <u>moodle-support@eng.cam.ac.uk</u>

# Useful resources

- CUED AV Support Teaching from Home <a href="https://help.eng.cam.ac.uk/audio-visual/teaching-from-home/">https://help.eng.cam.ac.uk/audio-visual/teaching-from-home/</a>
- CCTL Teaching remotely <u>https://www.cctl.cam.ac.uk/teaching-remotely</u> reading the supervision guide is useful as a bases for preparing to teach online
- Capturing writing <a href="https://openboard.ch/">https://whiteboard.microsoft.com/</a> <a href="https://jamboard.google.com/">https://jamboard.google.com/</a>
- Libraries access to online resources <u>https://www.lib.cam.ac.uk/research/librarysearch/university-libraries-are-all-open-online</u>
- Moodle Testing students' understanding <u>https://www.vle.cam.ac.uk/mod/page/view.php?id=3869561</u>
- Moodle support pages <u>https://www.vle.cam.ac.uk/course/view.php?id=115071</u>
- Panopto <u>https://cambridgelectures.cloud.panopto.eu</u>
- Panopto Support <u>https://support.panopto.com/</u>
- Panopto downloads instructions <u>https://support.panopto.com/s/article/Enable-Podcast-Downloads</u>
- Panopto basic recoding <u>https://support.panopto.com/s/article/basic-recording-1</u>
- Panopto recording with a Mac <u>https://support.panopto.com/s/article/basic-recording-1</u>
- Open Broadcast software <u>https://obsproject.com/</u>
- Panopto recording on your phone <a href="https://www.panopto.com/blog/record-your-phone-screen-in-ios11-and-share-with-panopto/">https://www.panopto.com/blog/record-your-phone-screen-in-ios11-and-share-with-panopto/</a>
- Panopto editing a video <u>https://support.panopto.com/s/article/Edit-a-Video</u>
- Panopto enabling podcast download <u>https://support.panopto.com/s/article/Enable-Podcast-Downloads</u>
- Panopto tools to support learning <a href="https://www.vle.cam.ac.uk/mod/page/view.php?id=12057121">https://www.vle.cam.ac.uk/mod/page/view.php?id=12057121</a>

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