Blending the virtual back into F2F teaching

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Seminar Outline

Part 1

• Student experiences of working online and how that should inform a return to F2F
• Some questions

Part 2

• Digital Exhibition Space - a forum for student interaction and collaboration (online or in class)
• Q&A

Blending the virtual back into F2F teaching
F2F – Online – F2F

PART 1
Reflective questions

Choose one (or more) of the following questions and post a short response in the main panel of the shared DES space:

A. Which of your EdTech tools brings you joy? (online apps, platforms, etc.)

B. What have you learnt about your own teaching practice in the last year?

C. How do you think your role as a teacher will change over the next 10 years?

Note with DES ⚠️

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https://des.hku.hk/spaces/71/share
Approach of teachers over the last year teaching online

Over the last year we have been running a series of research studies looking at the instructor and student experiences of being online, across a number of different courses.

There have been many obstacles and added stresses compared to traditional in-class T&L formats.

In general teachers have looked for ways / tools that allow them to replicate existing T&L activities online, or to find new activities based on the EdTech tools they are familiar with.

Not many have had a chance to look for new teaching approaches (due to time constraints).
Challenges instructors have faced

- Effort in re-writing and recording course material
- Loss of many types of class activity (resulting in more lecturing, less doing)
- Learning and using new technologies
- Restricted communication / interaction with students
- Hybrid classrooms - talking in two directions
- Muted response from students
- Greater effort needed just to keep the class going
- Zoom fatigue

But also some positives

- Lecture / Zoom recordings
- EdTech tools - white boards for student presentations, live streaming of site visits, online voting / quizzes
- Working from home, less travel required

Blending the virtual back into F2F teaching
... and what has the students’ experience been?

• Difficulties in communicating with teachers
• Loss of non-verbal forms of communication (no hand gestures, body language, eye contact / visual cues, annotation etc.)
• Greater focus on language skills and English comprehension
• Loss of chat with classmates
• Loss of oversight of peer artefacts
• Loss of motivation (borne out of frustration), greater need for emotional support
• Zoom fatigue, boredom (… with the new technologies)

Benefits of being online

• Not having to go to class
• … or having to look presentable
• Recordings, different types of access to peer artefacts
• New forms of communication with classmates - Zoom
• More flexible time management / schedule

Blending the virtual back into F2F teaching
Learning achievement?

Student performance was generally down (in most aspects) when compared to previous F2F versions of the same courses, but performance varied with academic ability, i.e. the good ones coped, the less able tended to retreat.

*note: comparing students’ grades with previous F2F classes is problematic … they are working under different stress conditions, and we are not grading on the same basis.*
What have we learnt from all this?

1. Without peer interaction learning is difficult

   Students learn from each other - the majority of what they learning is through interaction with peers.

   Oversight of peer work – allows student to get a fix on the nature of the given task, their progress in completing the task, and the quality of their finished work.

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What have we learnt from all this?

2. Need for dialogue / communication

Working in isolation makes dialogue impossible, there is little opportunity for students to ‘fill in the gaps’ in their understanding of what they are meant to do.

Students in class have a big advantage over those online due to the greater opportunity to interact with instructors and peers.

Zoom fatigue is a very real thing, Zoom is a cheerless environment. Breakout room discussions are rarely fruitful and need skilled moderation, with specific outcomes.

*note: students experience of working online is often markedly different from that assumed / anticipated by their instructors.*
What have we learnt from all this?

3. Students need support

Online, student stress typically arises from their separation / disconnection with their classmates and instructors, and the lack of oversight of the class.

When isolated from those that normally help and without the usual relief mechanisms, stresses will tend to grow, and often result in negative emotions and behaviours.

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What have we learnt from all this?

4. Tech is a double-edged sword

EdTech tools bring benefits, but also many frustrations. Instructors and students need time to learn and optimize each new tool.

They get students doing something, but often they are used just fillers.

If they don't have a clear educational purpose, they can be a distraction. How quickly does the novelty wear off?

Teaching online can becoming ‘tech-centric’ - EdTech is just a box of tools.

Blending the virtual back into F2F teaching
Finding a new (normal) approach to teaching

In the return to F2F (and blended learning), we need to prioritize communication, peer sharing and student support.

We need to re-visit our course instructional design – even though the environment has changed, the pedagogical aims should remain the same.

a) What are our learning objectives (knowledge, skills, student engagement)?

a) What content, learning activities, assignments, feedback, etc. do we need to achieve that?

Note: online formats tend to make problematizing the learning more difficult, and favour discrete activities which can make the learning sequence disjointed

c) How can we do that in the new teaching environment?
Finding a new (normal) approach to teaching

1. Re-thinking the learning around dialogue
   (if the class is F2f+online, this might have to be online)
   
   • Create dialogic spaces within which students can talk to and learn from each other - move away from big classrooms and position students within small groups (community of learners)
   
   • Create activities that require dialogue - structured conversation to a specific end “just putting the course content online is the same as telling the students where the library is” - all material needs an active use
   
   • Support student dialogue - discussion need to be constructed. Speaking out is not comfortable for many students, and the tendency is to remain silent.

When we get back to F2F, will we still treat students in isolation? Under social distancing rules, the experience of the F2F classroom might not be too different from being online. The challenge remains in this setting – how to get students to interact with each other.
Finding a new (normal) approach to teaching

Creating dialogic spaces

Not the lecture hall

Not Zoom

Some form of collaborative learning environment

Blending the virtual back into F2F teaching
Finding a new (normal) approach to teaching

2. Promoting student interaction

• Activate the classroom (students doing things other than listening) – need group activities* that require students to interact and discuss

• Activate the learning - not just conveying knowledge but employing higher order thinking skills (analysis, synthesis, planning, design, speculation etc.)
  - Don’t ask students to take a quiz, get them to work in groups to design a quiz
  - Not just read an article, ask them to deconstruct it and assess why it was written in a certain way
  - Not just look for case study examples, but look at the medium and presentation of those examples (beyond just facts - ask them to find the underlying thought, logic, reasoning / argument in a situation)

• Give students time to reflect and develop their own thoughts and ideas

(*) Groups - mix F2F + online students - make the group responsible for getting all members over the line - use platforms that allow them to work together, simultaneously or asynchronously – include activities that are easily achievable, not graded or grades that are not dependent on group size or effort (build confidence in group work)
Finding a new (normal) approach to teaching

3. Supporting student learning

Role of teachers is to facilitate learning

• Focus on making opportunities to engage students curiosity to learn, and to teach themselves

• Have specific outputs to each task, with measurable achievements to build confidence

• Be flexible, non-prescriptive, and allow autonomy

• Be crystal clear - give simple instructions, and repeat them often

• Encourage peer support

Blending the virtual back into F2F teaching
Example - fitting teaching into the new environment

POSTER

Previously in F2F … students research a topic, make a proposal, compose it in poster format, present it in class … maybe with Q&A

Online … same - select a platform to do the same … students research a topic, make a proposal at home, compose it in poster format, upload and present it on Zoom (maybe with Miro, CB, JamBoard etc.)

Problem –
Students online are working in isolation, little sharing / dialogue, flat presentations, limited Q&A, no peer support, low engagement, etc.
Example - fitting teaching into the new environment

POSTER

Q1. What is the learning objective?
Student - learns a lot about a subject + they learn research methods, story development, presentation (online and in-class), digital skills, responding to feedback, reflecting etc.
Other (listening) students - learn something about the subject + they learn to listen and assess, comment / give feedback, to discuss and reflect,

Q2. What learning activities / classroom format (in the new environment) might help me achieve this?
Small groups of students working in parallel - discussing, observing, supporting, regulating

Q3. How do I maximize the learning opportunity?
Construct an iterative process to allow trial and error, to give room for feedback to be given and acted upon.

Q4. ... and finally what (if any) EdTech tools do I need to facilitate this?
A forum for discussion, for brainstorming, for commenting .. and finally for presentation

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Digital Exhibition Space (DES)

PART 2
Digital Exhibition Space (DES)

What is DES and what does DES do?

- in-house built 3D Virtual Learning Platform (2020-2021)
- Simulates online gallery creation and visit experiences
- Creates immersive and communal learning environment
- Provides interactive and *socialized* asynchronous and synchronous learning experiences
- Visualizes working progress and achievement
- Promotes peer-regulated learning and peer oversight
Digital Exhibition Space (DES)

A 3D virtual learning platform

Introductory video
Digital Exhibition Space (DES)
A 3D virtual learning platform

Development Timeline

**DES 1.0** Early 2020  Peer regulation

**DES 2.0** Early 2021  Simple Gamification & Peer feedback

**DES 3.0** Now  Advanced Gamification, Socialization & Visualization

Scope

750+ users

F. Education / Architecture / Science / HKU Summer Program
A local Secondary School
Learning Activities on DES (1)

Course: CCHU9001 | Context: Online | Curatorial Group Project

- Each group is assigned with a SDG topic, and owns one gallery space
- Each group designs and curates an exhibition to make an argument on and advocate the SDG value with digital artefacts
- Other than mandatory artefacts of explanatory video and infographic diagram, students have autonomy to select and create extra items from or not from the provided list (e.g. quiz, historical timeline, relevant SDG resources in HK etc.)
- Students visit each other’s gallery, and write reflection on how their SDGs are related to each other, and how their own SDG contributes to a sustainable future
Learning Activities on DES (1)

Project collaboration, Idea Composition, Visual Design, Advocacy & Argumentation, Reflection
Learning Activities on DES (2)

Learning progress monitor, Presentation, Peer review & Feedback

Course: CCHU9058 | Context: Online & F2F | Individual Poster

- Each tutorial group owns one gallery space
- Students upload their draft poster to their own space
- Students present their idea in the tutorial
- Classmates listen to the presentation and leave feedback based on guiding questions
- Tutor reviews the feedback, and give own feedback
- Students reflect on the feedback, and improve the draft
Learning Activities on DES (2)

Learning progress monitor, Presentation, Peer review & Feedback
Learning Activities on DES (2)

Learning progress monitor, Presentation, Peer review & Feedback
Student Exhibition on DES
Learning Activities on DES (3)

Final Showcase & Voting

HKUGA College teacher sharing

Mr Wesley Tang
S2 level coordinator of the English Department
DES Sharing on 28/7

HKUGA College (Wesley Tang, English teacher - S2 coordinator)
S2 English Unit 3 – Advertising (selling food products)
Unit outline (Advertising - 15th anniversary souvenirs)

Part 1 - Discovering the need of the community (Week 1)
*Elements: Forming groups, Target audience, Slogan (15A) (Deadline: 3 May)

Part 2 - Producing the product (Week 2-5)
1. Functions of the product
2. Design of the product
*Elements: Product, blurb (product description),

Part 3 - Promoting the product (Week 6-7)
1. Pitch
2. Exhibition board (with the mock up of the products)
*Elements: Pitch, Proposal
Main exhibition hall (instructions given by teachers)

Level-wide competition:
Google Form survey (QR code) - voting for the best
Students’ engagement / teaching and learning

Students’ engagement

1) Easy to navigate + multifunctional
2) QR code for voting → competition
3) Commenting function → interaction
4) Ownership

How DES helped / will help in our teaching

A. a new mode of presentation (fun!)
B. catering for learner diversity (visual)
C. student-student interaction
D. habit building
E. a platform better than Google Drive / other learning platforms when showcasing students’ work
F. teaching particular units when students take the lead
Thank you

- an amazing opportunity to try a new platform
- professional and timely support
- free of change
Digital Exhibition Space (DES)

Pedagogical Focus

Stimulators
- Curiosity
- Relatedness
- Competence
- Comparison

Intrinsic Motivation

Engagement
- Behavioral
- Emotional
- Cognitive

References:
Digital Exhibition Space (DES)

Tripartite Model of Intrinsic Motivation

Stimulators

IM to Know

IM toward Accomplishment

IM to Experience Stimulation

Consequent outcomes
(Engagement)

Digital Exhibition Space (DES)

Research Study

Purpose

To understand types of student perceived intrinsic motivations and related student learning paths (associated stimulators & consequent behaviours) when learning with DES

Methodology

- Semi-structured Interview: 13 undergraduates
- Student evaluation of teaching & learning (SETL): 36 replies
- Deductive content analysis

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Faculty

Architecture, Medicine, Science, Engineering, Social Science, Education
Digital Exhibition Space (DES)

Research Study

Summary of Research Findings

Personality Orientation
- Curiosity
- Sense of competition
- Creativity-driven

IM to know
- IM toward accomplishment
- IM to experience stimulation

Situational factor
- Socialized learning community
- Supportive peers
- Effective peer regulation
- Novel learning experiences

Affective outcome
- Feel excited and interested
- Feel confident and proud
- Willingness to experience joy & temptation

Behavioural outcome
- Participate in and contribute more to project
- Provide help for group members
- Regulate project progress
- Evaluate work quality
- Reflect based on feedback, and improve

Cognitive outcome
- Don’t want to be left behind
- Understand different perspectives
Digital Exhibition Space (DES)

- Reflection
- Connected Environment
- Meaningful Socialized Design
- Common goals & Learning plans
- Progress & Quality Evaluation
- Reflective feedback
- Effective collaboration
- Stimulators
- Intrinsic Motivation
- Engagement
Some quotes from students

“It was a really surprising experience for me to create a gallery online which resembled the real one. I had to think about how to present the idea through images or my infographic, I should consider in what order that the infographic should be put so the visitors can understand, so it was a great experience for me and it gave me a different perspective of how I am supposed to, generally as a creator, make those things.”

“I think creating galleries on DES with digital works is more interesting than just writing an essay because it requires a lot of collaboration between the group mates, and also my own creative work. We would be talking with each other and discussing what to do, and how to categorize our works. We would be also looking at the gallery’s look and seeing whether we can make better changes to the gallery, or what else we can add to better advocate. We discussed with each other, and updated the gallery little by little.”

“We got chances to visit other rooms, it really is inspiring. Because I think curating and decorating galleries is quite difficult and each poster or each video is also difficult to make and design. When I visit other rooms, I feel like I should do better, so it actually pushed me to improve my artefacts, and also improves the whole curation in our gallery as well.”

“Before getting comments, we did not categorize the artefacts. And most of the comments are reminding us that our presentation was messed-up in the gallery and difficult for audience to navigate. So after reading those comments we try to categorize everything and putting everything in a systematic way. These commands helped us.”

“To meet the basic requirement of group project, I only need to make one single artifact. But when I see my work is going to be shown in my own gallery, and many great works are produced by my classmates. I want to create more. I can use more creative skills and more artistic skills to present my SDG in a better way. So I create a couple more artefacts for my SDG as well.”
Digital Exhibition Space (DES)

Some quotes from teachers

“ I don’t think there is limited use of DES in different discipline. I see DES as a tool, rather than whether it can allow you to achieve something, it really depends on your pedagogical design. How you use the tools to your own setting. ”

Dr Kennedy Chan
(partner course teacher, PGDE, HKU)

“ Lead technology, don’t let technologies lead you. ”

Dr Sean McMinn
(speaker in Sandbox session 1)


Learning objectives | Learning activities | Learning opportunities | Technology
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