



# Professional development in digital teaching and learning

### **IO 2 – Task A2**

A compendium of selected best practice training materials and/or resources for CPD for synchronous hybrid education

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### **Document details**

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Authors	Annelies Raes
Other authors Marieke Pieters and Frederik Van de plas	
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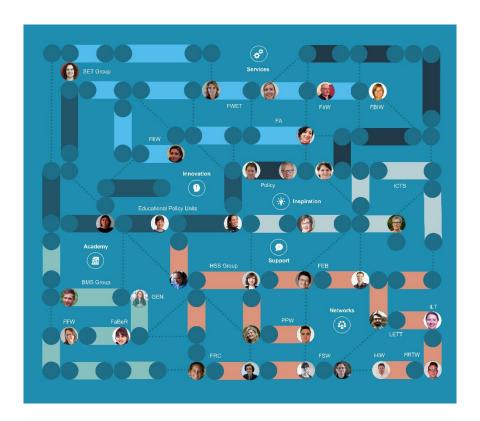
### 1. Best practices and resources within KU Leuven

### 1.1 KU Leuven Learning Lab as network for CPD

Within KU Leuven, KU Leuven Learning Lab serves as the institution for (continuous) professional development by uniting educational expertise within faculties and services. By doing so, KU Leuven Learning Lab helps to shape the <u>Future-oriented Education</u> and <u>Going Digital</u> policy priorities.



As made visible in the visualization of KU Leuven Learning Lab, instead of being a unit, KU Leuven Learning Lab is a network tied together by a shared concern for strong education. Driven by the Future-oriented Education and Going Digital policy priorities, the network spreads itself throughout the university.





The networked approach helps our institution merge various practices and distribute the lessons learned throughout its faculties and programmes. It offers a potent setting for different forms of agency in higher education. In testing times (most notably the recent pandemic and the subsequent pivoting in teaching and learning) it provides a much needed context for immediate professional training.

### 1.2 Training on educational innovation and on learning spaces more specifically

Training in and on learning spaces is offered in faculties, through central learning and development units and innovation centres alike. The network creates the conditions for a distributed approach. Whenever innovations impact the entire institution training is first offered to educational support staff. Next collaborative training is created to fit the needs of the programme or the teaching staff involved.

Moreover, within the framework of the 'Future-Oriented Education' and 'Going Digital' policy domains of the <u>Strategic Plan of KU Leuven</u>, the educational innovation team of the Humanities and Social Sciences Group aims to stimulate the field of technology-enhanced education within its faculties, institutes, and centres. The Humanities and Social Sciences Group takes a pioneering role in the fields of 'Online Feedback and Evaluation' and 'Learning Spaces'.

In the context of the focus of DigiTel Pro, we only share the focus on Learning Spaces. The aim is to strengthen the network around learning spaces within the university and bridge the gaps between teacher's needs, classroom design, educational technology and support. Special attention is paid to collaborative learning spaces for multilocation learning.

### 1.2.1 Learning Portal for teaching staff

KU Leuven provides teachers and teaching assistants with a <u>portal on blended and future-oriented</u> education.

In order to have a good match between the learning activity and the technological equipment, teaching staff needs to take the class context, the class format and the available infrastructure and software into account. The portal helps teachers and teaching assistants or instructional designers/educational developers with different tools to support educational decision making. Below, some examples are listed. All the tools can be found online:

https://www.kuleuven.be/english/education/leuvenlearninglab/support

• Quick guide to blended course design:



In this quick guide to *blended course design*, you can find some guidelines on how to give your course a blended design. It's a tool for teaching staff, teaching teams and <u>educational developers</u>.

#### The quick guide consists of three key elements:

- 1. analysing your course
- 2. determining the learning goals and activities
- 3. the blended course design tool

This exercise will take at least 2 hours. After this exercise, you will have your first draft version of your blended course.



#### The Classroom Matrix

In the classroom matrix, teaching and educational staff can find an overview of the different options for each type of infrastructure. Clicking on a particular cell will take someone to a scenario that describes the possibilities and how to prepare, teach and finish the class. Vertically, information is presented per room types. Horizontally, information is presented per class format: class recordings, livestream, and synchronous class. Within the **DigiTel Pro course**, we focus on the organization of the Synchronous Class.

AUDITO	RIUMS	Class recordings	Livestream	Synchronous class
	standard	<u>Kaltura</u>	livestream.kuleuven.be	×
Auditorium (= pooled room type 3 / 4 / 5 / 6)	+ video-conferencing device	<u>Kaltura</u>	livestream.kuleuven.be	Skype for Business
	+ USB-conferencing device	<u>Kaltura</u>	livestream.kuleuven.be	<u>Collaborate</u> <u>Skype for Business</u> <u>MS Teams</u>
SEMINAR	ROOMS	Class recordings	Livestream	Synchronous class
Pooled room with projection options only (= pooled room type 2)		<u>Kaltura Capture</u>	<u>Collaborate</u> <u>Skype for Business</u> <u>MS Teams</u>	<u>Collaborate</u> <u>Skype for Business</u> <u>MS Teams</u>
Smaller room with projection options only		<u>Kaltura Capture</u>	Collaborate Skype for Business MS Teams	Collaborate Skype for Business MS Teams

#### Tool-Guide

The tool guide provides an overview of the tools supported by KU Leuven to shape blended asynchronous and synchronous hybrid education. Part of these tools will be shared during the **DigiTel Pro course**, e.g. the content on Interaction as interaction is crucial in order to achieve engaged and connected learning. Interaction can take place between teaching staff and students, between students, and between the student and the learning environment's interface. For the latter, it is important to structure the learning environment.



The categories below, except for *guidelines and tips*, all have the same structure:

- 1. Information on the options and use of tools and applications for a specific part of your teaching practice 🔞 🕥 .
- 2. Reference to extra visual and/or in-depth content, like screencasts, quick sheets and 😯 manuals on <u>Toledopedia</u> 🕕 .



















#### • Didactic format guide

The portal also offers an entry based on didactical formats aiding staff to find advice on how to realize it in different modes of delivery. (e.g.

https://www.kuleuven.be/english/education/leuvenlearninglab/support/toolguide/all-categories/interaction/online-teaching-session#didactic-formats. The formats are ever-expanding and work-in-progress, though.



### DIDACTIC FORMATS

Are you looking for didactic background information? You can use tools for online teaching session for the following didactic formats:

- > <u>Demonstration</u>
- > Existing content
- > Field trip
- > Giving examples
- > Group work
- > Guest lecture
- > Peer instruction
- > Peer-assisted learning
- > Student presentation

### 1.2.2 Inspiration board from and for teachers

Good practices from colleagues within KU Leuven who organize their courses in a blended or hybrid fashion, have tested an educational tool or have approached their teaching practice in a different innovative way can share this on the website (in Dutch).

We selected the good practices related to synchronous hybrid education with can be shared in a CPD on that topic:

- Collaboration during synchronous hybrid education: https://www.kuleuven.be/onderwijs/learninglab/ondersteuning/inspiratie/thomas-cocolios
- Multitasking during synchronous hybrid education. How to lower cognitive load: <a href="https://www.kuleuven.be/onderwijs/learninglab/ondersteuning/inspiratie/multitasking-2-0">https://www.kuleuven.be/onderwijs/learninglab/ondersteuning/inspiratie/multitasking-2-0</a>
- Students become TA's in hybrid classes https://www.kuleuven.be/onderwijs/learninglab/ondersteuning/inspiratie/nicolas-priem

### 2. Research on synchronous hybrid education within KU Leuven

As comprehensively described in IO2A1, within KU Leuven, strategic basic research has been conducted on the topic of learning spaces more particularly and on synchronous hybrid education:

- https://www.kuleuven-kulak.be/tecol?lang=en
- Raes, A. (2022). Exploring Student and Teacher Experiences in Hybrid Learning
   Environments: Does Presence Matter? *Postdigital Science and Education*, 4 (1), 138-159. <a href="https://doi.org/10.1007/s42438-021-00274-0">doi: 10.1007/s42438-021-00274-0</a>



- Vanneste, P., Oramas Mogrovejo, J., Verelst, T., Tuytelaars, T., Raes, A., Depaepe, F., Van Den Noortgate, W. (2021). Computer vision and human behaviour, emotion and cognition detection: A use case on student engagement. *Mathematics*, 9 (3), Art.No. 287, 1-20. doi: 10.3390/math9030287 Open Access
- Raes, A., Vanneste, P., Pieters, M., Windey, I., Van Den Noortgate, W., Depaepe, F. (2020).
   Learning and instruction in the hybrid virtual classroom: An investigation of students' engagement and the effect of quizzes. *Computers & Education*, 143, Art.No. 103682. doi: 10.1016/j.compedu.2019.103682 Open Access
- Raes, A., Detienne, L., Windey, I., Depaepe, F. (2019). A systematic literature review on synchronous hybrid learning: Gaps identified. *Learning Environments Research*, 1-22. doi: 10.1007/s10984-019-09303-z Open Access

### 3. Good practice scenarios within KU Leuven

Below we describe two scenarios which have been tested and described in scientific research from KU Leuven (Raes, 2022) and which will be shared in Module 5 of the DigiTel Pro course (See IO2A3). As the ACAD framework (Goodyear et al., 2021) is the framework which is used to structure and guide the overall IO2 course, the scenarios are also described using the same framework, including set design, epistemic design and collaborative design.

### 3.1 Scenario 1: Collaborative problem solving (CPS) in a synchronous hybrid classroom

Experience within the course on 'Biostatistics' attended by third-year bachelor students within the Faculty of Medicine. Within this course there are 45 third-year bachelor students. The teacher is a female professor who has been teaching this course for five years. She is open to innovation and has been involved in teacher-researcher collaboration since 2017, within the context of the larger research project. In this case, students were divided over the two conditions (on-site versus remote presence).

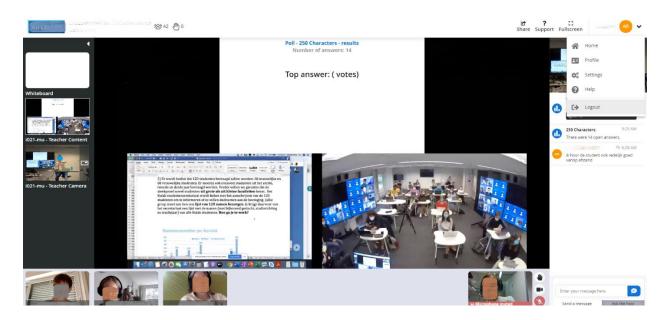
- Epistemic design: The learning activity organized in the hybrid classroom was built on the theory of delayed instruction or productive failure (Kapur, 2016). The lecture started with a Collaborative Problem Solving (CPS) task which was designed in line with the content of the lecture.
- Social design: Group learning was mainly integrated in the first part of the lecture. The
  remote students formed groups based on the screen on which they were displayed. Onsite students formed groups based on their seating. In the second part of the lecture, the
  teacher interacted with both on-site and remote students by launching several polls. The
  choice for non-mixed groups is one based on technology. The technical possibilities do
  not yet allow for efficient group work in mixed groups.
- Set design: The hybrid classroom facilitates launching quizzes and polls by using the Wacom tablet. By means of the same Wacom the teacher can start and end breakoutsessions. After launching a quiz or poll, the answers of the remote students become



visible on the screens. Also the names of the remote students are visible on the screens which means that the teacher can easily address to a certain remote student. As a remote participant, it is possible to choose between different sources (e.g. whiteboard, teacher camera, teacher content) and it is possible to ask question in the chat. As a remote student it is possible to raise your hand, to share your content, to mute or unmute yourself and to turn off your camera. Because of a ceiling microphone remote students can easily hear on-site students talking.



CPS in the Hybrid classroom of KU Leuven, campus Kulak Kortrijk



Hybrid classroom from the perspective of the remote participant



Lived experiences (more results can be found in the publication)

Students felt a sense of belonging. The interaction with the teacher, during the groupwork and the instruction following the groupwork made them more engaged and motivated.

"I found it useful to work together in small groups online. You feel less alone and there is a good interaction with the professor."

"Even though I was not physically present, I felt connected to the fellow students."

### 3.2 Scenario 2: multi-access education in the hybrid lecture hall

In this study, there were 75 first-year bachelor students involved within the course on 'Contract law" and 38 second-year bachelor students within the course on "Family law." The Contract Law course is taught by a male professor and Family Law by a female professor. Both teachers were among the first users of the hybrid lecture hall. The data collection within the hybrid lecture hall was organized in March 2021.

- **Epistemic design:** Both lectures could be described as theoretical sessions focusing on knowledge transmission. Both teachers asked oral questions during the lecture, without using polling software.
- Social design: Students had been asked to subscribe in advance and indicate how they
  would follow the course, choosing between three options: on-site, remote on-screen with
  interactivity, or through livestream. Places for option 1 and option 2 were restricted
  because of Covid-19 restrictions. No group work or break-out sessions were integrated in
  the sessions.
- **Set design:** Up to 60 students can follow the course remotely by being displayed on the screen in front. Students could also choose to follow the course synchronously through livestream. Students who followed the session through livestream could not connect to the on-site students or the remote students visible on the screens. Remote students visible on the screens could easily answer the teacher's questions. Answers of remote students were audible through the boxes. As the hybrid lecture hall does not have a ceiling microphone, when on-site students answered to questions, this was not audible for remote students, unless the teacher passed on his/her microphone.



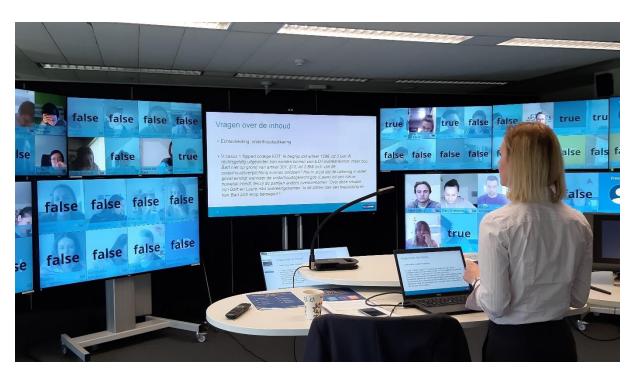


Hybrid Lecture Hall at KU Leuven, campus Kulak Kortrijk

Lived experiences: The students missed the atmosphere of the auditorium and the interaction with their fellow students. The fact that the lecturer strongly emphasised this interaction was greatly appreciated and seen as an advantage. The fact that there is interaction also motivated them to turn on their camera. (more results can be found in <a href="the publication">the publication</a>)

To increase interaction, quizzes and polls were used in a subsequent lesson. These ensure increased engagement and attention from the students. Both teacher and student appreciated the quizzes and polls very much. In the next lessons that are not hybrid, the polls will also be used.





Virtual classroom at KU Leuven, campus Kulak Kortrijk

4. Tips & tricks shared to teaching staff related to synchronous hybrid education within KU Leuven

Tip 1: Student as teacher assistant during Hybrid Synchronous lessons

Sometimes it is very difficult for a teacher to take on all the tasks during a hybrid synchronous lesson. The technical side demands a lot and at the same time there is the didactic side.

You have to make sure that your content is visible to the remote participants and in the classroom, you have to make sure that you are visible and audible and you also have to take into account the questions and communication of the remote participants. When all the participants at a distance are visible and audible, it is easier because the communication can then take place verbally and nonverbally. In that case, it is possible to see what someone wants to say or if there is a problem. When the technology does not allow this and when the remote participants can only communicate by chat, it gets a lot more difficult.

Sometimes your microphone is not switched on and you are not aware of it, maybe someone already posted a question in the chat but you did not have time to look at it...

A teacher assistant can be the solution. A student who is present in the class also logs in to the online lesson. He/she is responsible for testing sound and images and keeping an eye on the chat. Make clear appointments with the remote students about the chat. What can be posted and when will the questions be dealt with? If this is clear in advance, the students will be patient.



### Tip 2: Call students by name

Even if the students are visible to the teachers and vice versa, it is difficult to see when someone is specifically looking at someone and thus making it clear that he or she has the floor. The camera never shows the frontal view for everyone. For this reason, it is important to mention the name of the student you want to give the floor to.

### Tip 3: Address attendance, safety and privacy early on

Hybrid doesn't necessarily equal hyflex. It depends very much on your institution's and course terms, but make this explicit from the start. Appreciate engagement and discuss the use of settings (camera, verbal interventions,...) to create a safe surroundings. Be clear about possible recording and its use. Even if you want it to facilitate, recording can raise questions and inflict on the synchronous class. Be clear and possibly provide an informed consent.

### Tip 4: Instigate learner-teacher interaction

Synchronous hybrid teaching always presents you with two groups. You can't negate the divide, but there's no need to enforce this. Depending on the platform you use the tools provided (and you like) to make sure you can address them. The online group is usually the hardest, so design this into your classes and inform learners to provide safety.

### Tip 5: Instigate learner-learner interaction

Two groups can drift apart in the course of a few classes. Eighter make them feel one by providing joint activities or (and) divide them even further. Do use breakout groups e.g. and make these activities a centerpiece of that class. Often these are still cumbersome, so use them sparsely but well-thought. Does your room allow for heterogenous groups (online – on campus) do so.

### Tip 6: Seamless tools

In order to create learning activities that allow for peer interaction, try to foster tools that can be used in synchronous and asynchronous ways. In case of technical difficulties these can be accessed as well, even if someone needs to resort to a smartphone. Think about persistent chat, polling, brainstorm whiteboard applications,... Furthermore these can grow throughout the course as a living product.



## 5. Best practices and resources from other institutions

Below we share the resources from others institutions with can be used in the course on synchronous hybrid education (IO2A3)

Institution	Title and Source	Short Description
San Francisco State University	Beatty, B. J. (2019). Hybrid-Flexible Course Design (1st	This volume provides readers with
	ed.). EdTech Books. https://edtechbooks.org/hyflex	methods, case stories, and strategies
		related to Hybrid-Flexible (HyFlex)
		course design so that they may make
		decisions about using it themselves and
		even begin their own HyFlex course
		(re)design. The volume describes the
		fundamental principles of HyFlex
		design, explains a process for design
		and development, and discusses
		implementation factors that instructors
		have experienced in various higher
		education institutions. A series of
		worksheets provides specific guidance
		that can be used by individuals or teams
		engaging in HyFlex design projects at
		their own institution. Case reports from
		institutions and faculty who have
		successfully implemented HyFlex-style courses provide a rich set of real-world
		stories to draw insights for a reader's
		own design setting.
Honk Kong University (HKU)– Cetl (Centre	Title: Dual Mode Teaching – Getting Ready to Dual	What is dual-mode teaching? What are
for the Enhancement of Teaching and	Mode Teaching	the difficulties and challenges of doing
Learning)	mode reading	it? These are just some of the questions
	Source: VIDEO	that we need to tackle as we explore
https://www.cetl.hku.hk/dualmode		this new teaching approach. And to get
	https://www.youtube.com/watch?v=kPTrtqMN5fM	started, this video will give you some
		practical tips for you to use before and
	6min26sec	during your dual-mode teaching. This



	Made October 16, 2020	video covers large and small classroom
	,	arrangements, roles of a class deputy,
		and tools and equipment you need to
		ace your teaching.
HKU – Cetl (Centre for the Enhancement	Title: Dual Mode Teaching – How to Write Without	Some teachers found it challenging to
of Teaching and Learning)	Using the Whiteboard?	present equations or drawings in dual-
G		mode teaching. Projecting from the
https://www.cetl.hku.hk/dualmode	Source: VIDEO	physical whiteboard may be unclear to
		students online. This video introduces a
	https://www.youtube.com/watch?v=O KrS-YTPg0	simple alternative – a handmade
		visualiser, which allows you to write
	3min5sec	using a marker and display your writing
	Made October 16, 2020	synchronously and clearly to ALL
		students, while all you need is a mirror,
		adhesive tape and a laptop. Check it
		out.
HKU – Cetl (Centre for the Enhancement	<b>Title:</b> Dual Mode Teaching – How to Deliver <b>Interactive</b>	Dual-mode teaching provides both
of Teaching and Learning)	Dual-Mode Classes?	online and classroom-based
		instructions. However, teachers face
	Source: VIDEO	various challenges as they journey
		through this form of teaching. This
		video will introduce to you practical
	https://www.youtube.com/watch?v=G8Vjv7VzAr0	strategies to make your class more
		interactive, connect with your students
	7min27sec	better, and help achieve your learning
	Made October 16, 2020	outcomes. It will cover essential tips in
		managing your class, quick and easy
		activities to keep them engaged, and
		some tools you can use to motivate
		your students.
HKU – Cetl (Centre for the Enhancement	Tips and tricks – Checklist	This checklist helps you keep track of a
of Teaching and Learning)		list of items and actions required
	Downloadable at	before, at the beginning of, during, and
	https://www.cetl.hku.hk/dualmode/tips/checklist/	after class in dual-mode teaching. You



		can download, print, and carry it with you so that it becomes a handy resource especially if it is your first time conducting the dual-mode teaching. Once you become used to it, you might not need to refer to the checklist every time; but it might still be helpful to keep it in a handy place or save it on your mobile phone. Please also feel free to
		share it with colleagues or your teaching assistants/tutors who might benefit from it.
City University of London	Capabilities and use-cases for rooms for hybrid Synchronous learning https://city-uk-ett.libguides.com/staff/inroom- teaching/isla/overview	Guide to teachers to make choices. Do they needs HSL or livestream? There are tips for success, interaction, breakouts, And how to build community amongst students. They see the importance of a teacher assistant (co-pilot) during the first sessions.
Harvard University - Harvard Future of Teaching & Learning Task Force	Report of the Harvard Future of Teaching and Learning Task Force  Online at: <a href="https://ftltaskforce.harvard.edu/files/future-teaching-learning/files/harvard_ftl_final_3.8.22_2.pdf">https://ftltaskforce.harvard.edu/files/future-teaching-learning/files/harvard_ftl_final_3.8.22_2.pdf</a>	In this report Harvard Task Force draw together many lessons and solutions adopted during the height of the pandemic. They start by identifying the infrastructure and expertise that made it possible for Harvard to swiftly and effectively pivot to online instruction. Then they describe key innovations and the considerations of student needs that helped teaching and learning continue, and in some cases flourish, across schools and divisions. They conclude with concrete



		recommendations and a strategic roadmap for Harvard's teaching and learning future and outline key enablers of that vision.	
DCU – Future Learn	Online course on <a href="https://www.futurelearn.com/courses/teach-online">https://www.futurelearn.com/courses/teach-online</a>	Explore online teaching with this practical course for educators designed to help you transfer your teaching online.	
SURF Community	Webpage on how to start with hybrid education: Online: <a href="https://www.surf.nl/aan-de-slag-met-de-hybrid-classroom">https://www.surf.nl/aan-de-slag-met-de-hybrid-classroom</a>		
	Downloadable at: <a href="https://www.surf.nl/files/2021-09/surf-hybrid-classrooms.pdf">https://www.surf.nl/files/2021-09/surf-hybrid-classrooms.pdf</a>		
The University of Edinburgh	burgh In the webinar "Postdigital learning spaces of higher education - a special online conversation you can witness the conversation on the changing relationship between learning spaces and digital technologies.		
	Link to webinar: <a href="https://media.ed.ac.uk/media/1">https://media.ed.ac.uk/media/1</a> th87	'b0az	
	This complex and shifting relationship between space, learning and technology was the subject of a recent Special Issue (2021) of Postdigital Science Education, guest edited by James Lamb, Michael Gallagher and Jeremy Knox from the Centre for Research in Digital Education, working with Lucila Carvalho from Massey University.		
	Building on the experiences and ideas captured across the Special Issue, a webinar was organised on 24th February as an online conversation between several of its authors. An outstanding panel comprising Jos Boys (University College London), Magda Pischetola (IT University of Copenhagen), Peter Goodyear (The University of Sydney), Lesley Gourlay (University College London) and Stephanie Wilson (The University of Sydney) will discuss, among things, the emergence of hybrid learning, the legacy of Covid-19 upon the classroom, how digital resources destabilise campus		



	boundaries, and even more fundamentally, how we might configure space, technology and pedagogy to build the kind of university we desire.	
Purdue's Polytechnic Institute and College of Education	Graduate student Lakshmy Mohandas instructs Tech120 students in-person while Nathan Mentzer, an associate professor in Purdue's Polytechnic Institute and College of Education, teaches online through Microsoft Teams at the same time. The blend of both face-to-face and online instruction, also known as a HyFlex model, give students the option to stay home and participate in class in real-time online or physically attend on any given day.  See: <a href="https://www.purdue.edu/newsroom/releases/2020/Q3/a-look-inside-a-hyflex-classroom-how-blending-remote-and-face-to-face-instruction-helps-students,-instructors-succeed.html">https://www.purdue.edu/newsroom/releases/2020/Q3/a-look-inside-a-hyflex-classroom-how-blending-remote-and-face-to-face-instruction-helps-students,-instructors-succeed.html</a>	
Zaz Woolfitt (InHolland Hogeschool, The Netherlands) about Delivering education in the Hybrid Virtual and Connected Classroom	Blogspot on experiences and findings about hybrid teaching and learning: <a href="http://zacwoolfitt.blogspot.com/">http://zacwoolfitt.blogspot.com/</a>	
Aarhus University	See research output from Rikke Toft Nørgård on Designing Hybrid Learning Spaces in Higher Education	



### 6. Integration of the resources within the DigiTel Pro course

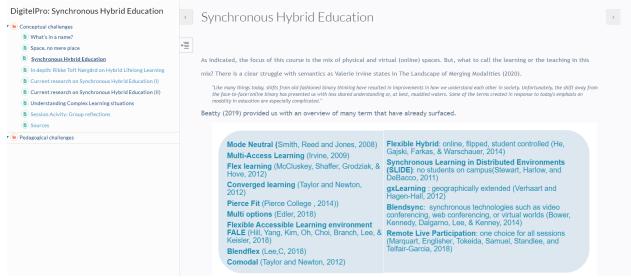
Within the context of the DigiTel Pro project, we are currently developing and testing the first 6-module course on Synchronous Hybrid Education. For that course, additional training resources are being developed but currently kept internally for review, to be used or piloted for internal purposes or to be developed. The design, content of resources which are used in the DigiTel Pro course of KU Leuven will be described in IO2A3.

We include an evaluation form in each of the course module to evaluate both the instructional design decisions and the provided content.

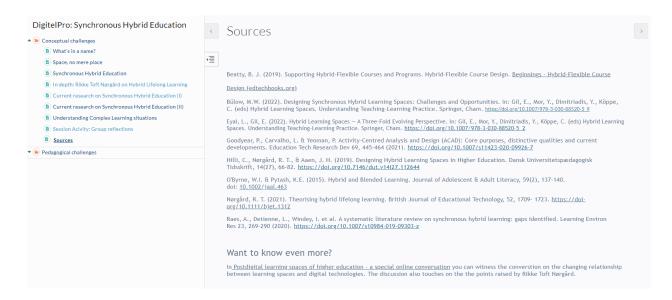
Next to the course, we created a LinkedIn group where we share the latest new related to the course on Synchronous hybrid teaching and learning: <a href="https://www.linkedin.com/groups/9089974/">https://www.linkedin.com/groups/9089974/</a>

# 6.1 Example of integration of additional training materials and resources integrated in the course (IO2A3)

As can be seen in the overview of the first module of the course (i.e. Conceptual challenges), the resources are both integrated in the learning material and are offered separately at the end of the learning path.







### 7. Input for institutional leaders

KU Leuven is member of U21 (<a href="https://universitas21.com">https://universitas21.com</a> ) which is the worldwide network delivering educational and research opportunities, solutions and resources. Within the working group on learning spaces we disseminate the findings on synchronous hybrid learning spaces toward the educational leaders.

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