

Szenarios-Tools-Matrix: An overview of teaching scenarios and example tools for digital learning and teaching at the University of Basel

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Introduction

The digital transformation is also affecting university learning and teaching. Digital teaching formats are becoming an increasingly important part of teaching and so-called blended learning scenarios are more and more implemented. During the Corona pandemic, digital teaching and learning gained even more importance and additional tools and platforms were introduced at the University of Basel, in addition to those already in place.

As the pandemic has either prevented or severely restricted the possibility of classroom teaching, we understand blended learning as a didactically meaningful combination of independent asynchronous learning based on new technologies, on the one hand, with synchronous “in-person” classes, on the other. Synchronous phases can take the form of a virtual classroom, a physical classroom, or a mixture of both (i.e. “hybrid” classroom: some students are in a physical classroom, other follow by way of a live webcast).

The asynchronous phase (autonomous self-study) is primarily supported by the learning platform ADAM, together with SWITCHtube or Panopto, depending on the kind of videos that have been created and made available. Additional learning resources can also be made accessible to students via other platforms (e.g., Tales, MOOCs).

In the synchronous phase (“presence”), different applications and infrastructure must be used, depending on the type of classroom. Purely virtual meetings are mostly conducted via Zoom. In the hybrid classroom, with both on-site and virtual participants, Zoom or Panopto can be used together with the AV media kit to ensure a good transmission of live exchanges for all. If everyone, students as well as faculty, are in the same physical classroom, no additional technology is needed.

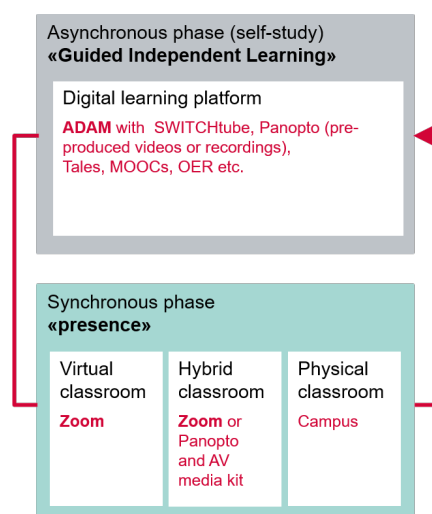


Fig. 1: Overview of the phases of blended learning and of the infrastructure available at the University of Basel

This document gives you, in a very compact form, an overview of typical teaching scenarios and activities, of exam and assessment formats, and of the functions of the platforms (the learning platform ADAM and the video-conferencing system Zoom) most frequently used to support these scenarios and formats. Both ADAM and Zoom offer numerous useful functions for teaching. In addition to ADAM and Zoom, some other useful tools are mentioned as well.

Explanatory notes to the following tables

The following tables can help you get started with (re)designing your courses. You will find possibilities and suggestions on how you can design your blended learning scenario.

The tables list typical teaching scenarios and activities in the first column for the following teaching phases:

- asynchronous phase
- synchronous phase
- online exams
- formative assessments

The scenarios and activities listed are not always clearly distinguishable and should be understood as examples. The list is not exhaustive.

The header contains the various functions of ADAM and Zoom as well as additional useful tools for digital teaching available at the University of Basel.

The filled boxes in the matrix indicate which tools and functions are ideally used to implement a particular scenario. In some scenarios, there are several tools that complement each other and are applied together (often in temporal sequence). In other scenarios, you can choose from several tools with similar or identical functionalities (e.g. LiveVoting in ADAM vs. movo.ch).

In a separate PDF document, the four tables are combined into a single one. In that document, the functions in the header entail links to further information or help pages for the corresponding tools.

Asynchronous phase

More information about the asynchronous phase can be found in the [Blended Learning Guide](#), particularly in chapter 6.

	Modules and other functions in ADAM																									Alternatives				Video conferencing software Zoom						Selected EduTools																			
	Folder	Postbox Folder	Session	Group	Item Group	Forum	File	Medlink	Wiki	Blog	Learning Module ADAM	Learning Module HTML	Learning Module SCORM/AICC	Glossary	Data collection	Exercise	Test	Question Pool Test	Poll	Survey	Question Pool Survey	Portfolio	DigiLit	Etherpad	Plagiarism Check	LiveVoting	Panopto Video	Text-Media-Editor	E-Mail on ADAM	Unitas E-Mail	pre-structured Word-file	Audio and Video	Screen sharing	Chat	Poll	Whiteboard	Breakout Rooms	Recording	Movo.ch	EvaSys	EvaExam	SWITCH-Hive	SWITCH-Hube												
Making documents available																																																							
Providing links																																																							
Providing literature from the University library																																																							
Providing audio and video files																																																							
Providing presentation slides with audio																																																							
Providing screencasts/teaching videos produced in advance																																																							
Producing screencasts/presentations slides with audio or teaching videos																																																							
Producing learning materials with multimedia components																																																							
Holding written discussions																																																							
Providing and evaluating exercises																																																							
Handing in completed exercises																																																							
Giving peer-feedback																																																							
Collaborative writing																																																							
Gathering feedback																																																							
Holding tests/quizzes																																																							
Recording live classes (lectures, seminars) and making the recording available																																																							
Collecting data collaboratively																																																							
Organising group work																																																							
Organising sessions																																																							
Informing and motivating students (learning support)																																																							
Structuring ADAM workspaces																																																							

Synchronous phase

More information about the synchronous phase can be found in the [Blended Learning Guide](#), particularly in chapter 7.

	Modules and other functions in ADAM																				Alternatives	Video conferencing software Zoom					Selected EduTools																					
	<u>Folder</u>	<u>Postbox Folder</u>	<u>Session</u>	<u>Group</u>	<u>Item Group</u>	<u>Forum</u>	<u>File</u>	<u>Weblink</u>	<u>Wiki</u>	<u>Blog</u>	<u>Learning Module ADAM</u>	<u>Learning Module HTML</u>	<u>Learning Module SCORM/ACC</u>	<u>Glossary</u>	<u>Data collection</u>	<u>Exercise</u>	<u>Test</u>	<u>Question Pool Test</u>	<u>Poll</u>	<u>Survey</u>	<u>Question Pool Survey</u>	<u>Portfolio</u>	<u>Digital</u>	<u>Etherpad</u>	<u>Plagiarism Check</u>	<u>Live/Voting</u>	<u>Panopto Video</u>	<u>Text-Media-Editor</u>	<u>E-Mail on ADAM</u>	<u>Unibas-E-Mail</u>	<u>pre-structured Word-file</u>	<u>Audio and Video</u>	<u>Screen sharing</u>	<u>Chat</u>	<u>Poll</u>	<u>Whiteboard</u>	<u>Breakout Rooms</u>	<u>Recording</u>	<u>Movo.ch</u>	<u>EvaSys</u>	<u>EvaExam</u>	<u>SWITCHdrive</u>	<u>SWITCHtube</u>					
Presentation/lecture/speech																																																
Providing documents																																																
Providing links																																																
Taking questions from students during a presentation/lecture/speech																																																
Enhancing participation through questions or quizzes																																																
Plenary discussion																																																
Brainstorming																																																
Collaborative writing																																																
Discussions in groups/team work																																																

Online exams

More information about online exams can be found in the [Tales Online exams and assessments](#).

	Folder	Postbox Folder	Session	Group	Item_Group	Forum	File	WebLink	Wiki	Blog	Learning_Module_ADAM	Learning_Module_HTML	Learning_Module_SCORM/AICC	Glossary	Data collection	Exercise	Test	Question Pool Test	Poll	Survey	Question Pool Survey	Portfolio	DigiLit	Etherpad	Plagiarism Check	LiveVoting	Panopto Video	Text-Media-Editor	E-Mail on ADAM	Unibas-E-Mail	pre-structured Word-file	Audio and Video	Screen sharing	Chat	Poll	Whiteboard	Breakout Rooms	Recording	Movo.ch	EvaSys	EvaExam	SWITCHdrive	SWITCHtube					
Non-simultaneous take-home exams																																																
Simultaneous take-home exams																																																
Oral examinations																																																

Digital formative assessments

More information about digital formative assessments can be found in the [Tales Online exams and assessments](#).

	Folder	Postbox Folder	Session	Group	Item_Group	Forum	File	WebLink	Wiki	Blog	Learning_Module_ADAM	Learning_Module_HTML	Learning_Module_SCORM/AICC	Glossary	Data collection	Exercise	Test	Question Pool Test	Poll	Survey	Question Pool Survey	Portfolio	DigiLit	Etherpad	Plagiarism Check	LiveVoting	Panopto Video	Text-Media-Editor	E-Mail on ADAM	Unibas-E-Mail	pre-structured Word-file	Audio and Video	Screen sharing	Chat	Poll	Whiteboard	Breakout Rooms	Recording	Movo.ch	EvaSys	EvaExam	SWITCHdrive	SWITCHtube									
Providing exercises and evaluating them																																																				
Handing in completed exercises																																																				
Answering tests and quizzes during the semester																																																				
Summarising text, sessions or discussions in writing																																																				
Handing in term papers or similar and check for plagiarism																																																				
Collaborative writing with other students																																																				
Participating in written forum discussions																																																				
Participating in oral discussions during video conferences																																																				
Giving a live presentation during a video conference																																																				
Providing peer feedback on a presentation, text, or exercise																																																				
Producing and maintaining an online portfolio																																																				