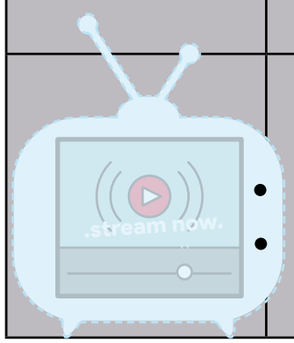
#05 SERVICES FOR TEACHING AT THE TU GRAZ

Recording – Hybrid Teaching – Streaming – Video Conferences

	1	2	3	4	5	6	7	8	9
Options	Recording via the infrastructure in the lecture hall (where available)	Recording with own computer and one of the following applications: TUbe Recorder Webex OBS	Recording with mobile TU equipment	Recording by VA Team / Studio recording at the LLT studio	Hybrid Teaching using Webex or ZID hardware	Livestreaming from the lecture hall using TUbe	Livestreaming from home using OBS via TUbe	Videoconference with BigBlueButton via TeachCenter	Video conference with Webex
Services Needed (LLT/ZID)	**LLT (VA):** Request support in using the system, if necessary **LLT (ID):** To have TUbeDrop activated in the TeachCenter, contact tc@tugraz.at	**LLT (ID): TUbeDrop** Have TUbeDrop activated in the TeachCenter by writing an email to tc@tugraz.at	**ZID, LLT VA:** Lending of mobile equipment (different options, depending on the setting) **LLT (VA):** Request on-site support by the VA team via email to tube@tugraz.at	**LLT (VA):** In any case, contact the VA team via tube@tugraz.at	**ZID:** Hardware and software support, Cisco or Avaya system installed in the lecture hall	**LLT (VA):** Request livestreaming via VA form	**LLT (VA):** OBS software with configurations, see manual on TU4U	**LLT (ID):** Have activated in the TeachCenter via email to tc@tugraz.at (please include date, time and number of participants); Support during use = ZID, technical support	**ZID:** Software Support
Number of Participants	**Face-to-face:** Depending on the size of the lecture hall and the number of participants allowed	Depends (can also take place in a lecture hall)	**Face-to-face:** Number of students depends on the number of participants allowed in the lecture hall	Not possible to have students participate directly	**Face-to-face:** Depending on size of lecture hall and number of participants allowed **Online:** see Webex	In theory no limit, in practice restricted by server streaming capacities	unlimited (see option 6)	max. 100 (didactically recommended 50)	For large events, max. 1000 participants; with more than 350 participants, livestreaming or recording is recommended
Interaction	**Face-to-face:** As usual, by raising your hand, feedbackr etc. **Online:** No interaction with students; adding interactive elements with H5P possible upon request	No interaction with students, adding interactive elements with H5P is possible	**Face-to-face:** as usual via raising your hand, feedbackr, etc. **Online:** No interaction; adding interactive elements with H5P is possible	No interaction with students, adding interactive elements with H5P possible	**Face-to-face:** as usual, by raising your hand, feedbackr etc. **Online:** via chat, video or audio; feedbackr	**Face-to-face:** as usual, by raising your hand, feedbackr, etc. **Online:** No interaction; possibly via lecture hall telephone or parallel Webex meeting (requires support of second person)	possibly using feedbackr or a chat channel *More information on feedbackr can be found in the article „Feedbackr“ in the TOOL section.*	via chat, video or audio; feedbackr; breakout rooms for group work	via chat, video or audio; feedbackr
Other		Editing videos with Camtasia is possible (request license from ZID via email)	Not connected to LLT streaming servers. Use: Recording the whiteboard in smaller rooms. Editing videos with Camtasia license possible (request license from ZID via email)	Availability of this option depends on available resources		Due to the bandwidth, the number of participants is limited to a maximum of five livestreams	Due to the bandwidth, the number of participants is limited to a maximum of five livestreams		

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Definitions

Streaming
Live transmission in real-time via TU's own streaming server.

Recording
Recording a course or parts of a course.

Video conference
Synchronous exchange of information for image and sound transmission. In addition to suitable software, at least a camera and a microphone as input devices as well as a screen and a loudspeaker or headphones as output devices are needed.

Hybrid Teaching vs Blended Learning
Hybrid teaching means teaching face-to-face, but where a part of the students is connected online via a video conferencing system and thus actively participates in the event. Blended learning refers to a complete teaching concept or a form of learning that takes place over the course of a semester or several courses. It is a didactically meaningful combination of traditional face-to-face teaching with online units. The concept combines the effectiveness and flexibility of electronic forms of learning with the social aspects of face-to-face communication and, where applicable, practical learning.

H5P
H5P is the abbreviation of HTML5 Package, a free and open source software for creating interactive (learning) content for teaching. This TeachCenter feature can be used to create interactive videos, tests and presentations.

Service centers

LLT – Educational Technology
(elearning@tugraz.at)

ZID – IT services
(it-support@tugraz.at / videokonferenz@tugraz.at)

LLT (VA) – Team Video and Animation / Educational Technology (va@tugraz.at / tube@tugraz.at)

LLT (ID) – Team Instructional Design / Lehr- und Lerntechnologien (tc@tugraz.at)

1 Definitions based on and translated from this article: https://elearningblog.tugraz.at/archives/6005

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