

## Technology Tools for Teaching and Learning

Purpose	Tool
<ul style="list-style-type: none"> <li>• Teaching and learning platform to manage modules/courses including all learning resources</li> <li>• Communicate with students and peers</li> <li>• Provide a nexus for teaching and learning activities</li> <li>• Promote explorative and independent learning in your students</li> <li>• Collaborate and streamline administrative workload</li> <li>• Support the development of digital/web literacies in students</li> </ul>	<b>LumiNUS</b>
<ul style="list-style-type: none"> <li>• Ask questions, gather live responses (polls &amp; short answers) from students, and see instant results (animated graph, chart, or word cloud)</li> <li>• Gauge student understanding of concepts, do just-in-time teaching to correct misconceptions.</li> <li>• Gather short answer responses from students and display as a word cloud.</li> <li>• Get students to contribute ideas or ask questions.</li> </ul>	<b>Poll everywhere</b>
<ul style="list-style-type: none"> <li>• Supplement in-class lectures/tutorials with online tutorials, meetings and/or webinars and engage using screen sharing + document annotation</li> <li>• Hold virtual office hours</li> <li>• Engage students with expert guests and speakers from a remote location</li> </ul>	<b>Zoom</b>
<ul style="list-style-type: none"> <li>• Enable students to create blogposts for personal learning and reflection</li> <li>• Get students to maintain their portfolios using blogs</li> <li>• Facilitate community building and learning from others (peers, instructors, experts) by encouraging comments and feedback.</li> <li>• Support the development of digital/web literacies in students</li> </ul>	<b>Blog.NUS</b>
<ul style="list-style-type: none"> <li>• Engage students to contribute to a knowledge base for a particular field (authentic practice)</li> <li>• Allow students the opportunity to develop shared learning resources</li> <li>• Enable students to collaborate on projects by using the editing and discussion page features in wikis</li> <li>• Support the development of digital/web literacies in students</li> </ul>	<b>Wiki.NUS</b>
<ul style="list-style-type: none"> <li>• Support high-stakes examinations in a proctored environment using students' own devices model, as well as conduct fully-online CAs</li> <li>• Create questions that contain richer multimedia content and real-life scenario simulations</li> <li>• Access improved analysis and analytics of questions and assessments</li> <li>• Provide detailed yet customized feedback to students</li> <li>• Improve fairness and consistency in grading and reporting using rubrics</li> </ul>	<b>ExamSoft</b>
<ul style="list-style-type: none"> <li>• Generate collaborative mindmaps, concept maps and outlines</li> <li>• Supports brainstorming, ideation and creative thinking in students</li> <li>• Convey how concepts/ideas are connected using concept maps</li> <li>• Assess students' prior knowledge</li> <li>• Get students to summarize reading (key ideas, main points)</li> <li>• Enable student teams to collaborate and plan a task</li> </ul>	<b>Mindomo</b> Web-based mind mapping tool

<ul style="list-style-type: none"> <li>• Improve students' educational experience by reducing stress and anxiety about missed lectures</li> <li>• Provide an additional study resource</li> <li>• Increase flexibility and convenience for students</li> <li>• Instructors can watch their own lectures in order to self-evaluate, to learn from mistakes and to improve future lectures</li> </ul>	<p><b>Web lectures</b>          Archived lectures          +          broadcasting</p>
<ul style="list-style-type: none"> <li>• Easy distribution of audio files on the internet</li> <li>• Students can download these audio files and listen to them independently at their convenience</li> <li>• Allow for self-paced, mobile learning</li> <li>• Accommodate a variety of learning styles</li> <li>• Promote active learning and engagement</li> <li>• Provide access to subject matter experts</li> </ul>	<p><b>Podcast lectures</b>          audio recording          +          broadcasting</p>
<ul style="list-style-type: none"> <li>• Capture visual information from your computer and to build into an interactive presentation</li> <li>• Engage students through step by step processes, or teach them how to perform specific task because the use of audio, text, and video appeals to different learning styles</li> <li>• Make the content more engaging and interactive than written instructions and static photos or illustrations</li> <li>• Easy publishing and distribution via blogs which opens the door for collaboration</li> </ul>	<p><b>Screencast lectures</b>          Screen recording          +          audio narration          +          broadcasting</p>