

E-Assessment at the BFH

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Objective

In this project, E-Assessment focused digital testing or, more generally, assessing students' competences with the help of ICT, both in supporting learning processes or determining grades. The aim of the project was to digitise the entire process from the creation of an examination to its archiving. To this end, solutions have been developed and implemented in various study programmes at the BFH.¹

General Framework

The project focused on several phases of E-Assessment, based on a lifecycle model (Figure 1).



Figure 1: E-Assessment Lifecycle.

Initiatives and Results

- 1. Integration of Safe Exam Browser (SEB, <u>safeexambrowser.org</u>) into Moodle (<u>moodle.org</u>)
 - a. Objective: Configuration and control of SEB-supported exams in Moodle
 - b. Result: Co-designed, -implemented, part of Moodle core functionality since version 3.9
- 2. Consultative Self-Assessment in the Master of Science in Engineering programme (<u>MSE</u>)
 - a. Objective: Enable students to assess their entry competencies and choose modules
 - b. Result: In <u>production</u> since mid-2021, used by lecturers and students of the MSE
- 3. Placement test: Java vs. Kotlin in the BSc Computer Science programme
 - a. Objective: Select students with sufficient Java knowledge for Kotlin alternative module
- *b.* Result: In <u>production</u> since autumn 2020
 4. Implementation of Think-Pair-Share in distance and classroom settings
 - a. Objective: Design attractive online instruments for distance <u>and</u> presence teaching
 - b. Result: Implemented and demonstrated to lecturers on multiple occasions
- 5. Examination sessions Spring 2020/Autumn 2021/Spring 2021 with E-Assessment in the MSE
 - a. Objective: Support (COVID situation-driven) distance and presence exams with E-A
 b. Result: development and execution of a standardised management solution for over 50 E-
 - As, with accompanying webinars
- 6. Verbalfeedback: structured assessment of presentations in presence and distance learning
 - a. Objective: Develop a Moodle plugin for E-A in presentations, with prepared but editable text elements, PDF document generation with spider diagrams, and instant, on-demand feedback to students
 - *b.* Result: Plugin developed and in <u>production</u> since November 2021 at BFH Moodle.

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he introduction estal nd provides orientati	olishes contact, arouses interest on.	0 1	2	3	4	5	N
Detail rating							
Title	Title The title is meaningful and appealing.				٠	**	
Welcome The greeting is appropriate to the situation and makes sense.				٠	**		
Introduction The speaker introduces himself or herself. In it the motivation and expertise for the topic becomes clear.							
Entry The introduction to the topic is gripping and arouses interest.		a gripping and arouses	**		٠	**	
Introduction	The speaker introduces the to	pic of the presentation.			٠	**	
Goal	The speaker points out the go audience.	The speaker points out the goal of the presentation to the audience.			٠	**	
Orientation The speaker informs about the structure of the presentation.		structure of the		101			
Student comment							
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The objective	ping introduction you make the audien of your presentation is implicitly clear, i In to the structure of the presentation i	but you should point this out ex					

Figure 2: Verbalfeedback Moodle Activity.

¹ <u>https://www.bfh.ch/de/forschung/forschungsprojekte/2019-635-461-246/</u>