Students massively use electronic exercises if they are relevant for the exam. Electronic exams with BYOD work at a large scale.

Electronic learning and assessment - Evaluation of a large scale application
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CaseTrain: authoring system for case-based exercises, since fall 2007, in > 300 courses with > 12000 Users

Electronic exams in Statistics 1 and 2: own laptops since fall 2010, 120 participants per cohort, 6400 participants to date

Students spend a lot of time on exercises – if available

Electronic exercises
- astonishing demand
- must be developed by professionals
- no explanations → shiitstorm
- (perceived) relevance is essential

Electronic exams
- work at a large scale
- with BYOD
- illegal electronic collaboration?
- No problem
- but: tryout exam advisable

Teaching to the test?
real exams instead of normal exercises
- preparation time each semester is high (~ 40 hours)
- can be used several years as exercises
- and will be used intensively
- impact factor higher than lecture
- good way to teach content

Lessons learned
1. People, not equipment
2. Professionals, not teaching assistants (i.e. time and money)
3. content and didactics
4. (exam-) relevance
5. reliable technical support
6. large (i) number of exercises

Factors for success
- Irrelevant: evaluation schemes, special types of questions, software brand