



UNIVERZITA
KARLOVA



Hitchhiker's Guide to Test Development *Čestmír Štuka, PhD & Martin Vejražka, PhD*

Course description:

An integral part of university teaching is the evaluation of students' knowledge. This is done in a variety of ways, from oral examinations through written testing to forms of practical tests. The three workshops focus on some perspectives on assessment in higher education and especially on written testing or computer-assisted testing. Tests are often used to make sure that a student has reached the knowledge and skills needed to continue learning or to pursue a profession. They can also provide valuable feedback to teachers and students and then become the basis for teaching management and its continuous improvement. The greater the impact of test results on a student's future or on changes in teaching, the more quality tests are needed - to measure knowledge and skills objectively, fairly and reproducibly.

Workshop participants will learn techniques that help design such tests and create quality test items for them. They will get familiar with tools for analysis of tests and test items and learn how to apply results of such analyses in order to improve tests and test items. The workshops will cover all steps of the so-called test cycle from blue-printing, through the authoring and reviewing the items, setting and standardization of classification limits, test administration, its evaluation, to item analysis and test analysis. Workshop participants will be able to immediately start using most of the techniques in their teaching practice.

Modules:

1. A quality test item

Construction of a quality test items. Types of test items and their use for assessing different levels of knowledge and skills. Knowledge testing vs. testing comprehension and skills. Common flaws of test items and how to avoid them. Formative and summative evaluation.

2. Item analysis

Psychometric characteristics of test items and their estimation. Classical test theory and item response theory. Tools for item analysis.

3. Test as a whole

Objective setting of standards and test classification. Blue-printing, specification table. Validity and reliability of a test. Other formats of test tasks, open questions and their use. Proctored testing.

Communication and Delivery:

The course will be delivered online in three Wednesday sessions:

1. December 1st, 14:00-16:00

2. December 8th, 14:00-16:00
3. December 15th, 14:00-16:00

The following Zoom link will be used: <https://cuni-cz.zoom.us/j/99751566405?pwd=UUxPL2k2MlFBR2hIWlVwQmtkeUJIUT09>

Registration:

Applicants can register by sending an e-mail to jana.tesarova@lf1.cuni.cz with following information:

- Full name
- Contact e-mail
- University
- Department
- Occupation (academic staff/student)
- Field of focus (humanities, STEM, social sciences...)

The deadline for applying is Sunday, November 28th 2021.