Methodology of pedagogical research and evaluation: 7. Measurement techniques in pedagogical research, research tools, validity, reliability

Methodological Concept for Effectively Supporting Key Competencies Using the Foreign Language ATCZ62 - CLIL as a Learning Strategy at the College





Europäische Union Evropská unie

Europäischer Fonds für regionale Entwicklung Evropský fond pro regionální rozvoj





✓ RESEARCH METHODS

- ✓ Have the properties: validity + reliability
- Within each method, a specific research tool can be created







Validity

- \checkmark The ability of reserarch tools what they have
- ✓Types: content
 - constructive
 - criteria (concurrent and predictive)
 - internal
 - external





Reliability

- Accuracy and reliability of the research tool.
- How to determine the reliability of the research tool? Repeated measurements
- equivalent forms of research tool,
- internal consistency,
- consensus among judges.





RESEARCH FILE

Are called research entities - the basic set (POPULATION).

- Random selection (draw, random number table)
- Stratified selection is a specific type of random selection the base file is decomposed according to an essential character.
- As for the number of subgroups, this selection may be:
- a. Proportional (it is used by agencies that identify eg citizens, election preferences,

b. Even.





Sample Range = n(E.g., n = 112)

Depends on:

- Required reliability,
- Required accuracy,
- Basic file variability.

Big Pitfalls - Uncontrollable Variables.



