

**Level : Master I (DAELE)**

**Module : Methodology in Assessment**

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# **Item Analysis**

# Item Analysis

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- ❖ Item analysis refers to the process of checking the effectiveness of the different tasks involved in a test before administering it. It aims at asserting that the various test items are really suitable to the testing situation.
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## Item Analysis

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- ❖ Item Analysis is a very useful procedure that is utilized by test developers. Moreover, it helps the researcher to examine the quality of a specific research tool.
  - ❖ This technique can be used to analyse the items or questions included in research instruments like questionnaires and tests.
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## Item Analysis

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- ❖ Item Analysis is mainly employed to verify the consistency of the test items. It takes place in the phase of test development in which the items of the test are tested to check whether the test is valid, reliable and scorable.
  - ❖ It tries to gather information about the results of the test administration, the suitability of the test content to the abilities of the learners and the ease of scoring the test.
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# Objectives of Item Analysis

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- ❑ Item Analysis aims at developing or revising the test or research tool.
  - ❑ It serves as a means of improving the validity of the content of the instrument.
  - ❑ It helps to ensure the reliability of the employed tool.
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# Procedures of Item Analysis

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- ❖ Item analysis relies on the use of various methods to provide data about the nature of the elements of the test. Item difficulty and item discrimination are the most typical methods employed for analysing items.
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## Procedures of Item Analysis

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- ❖ Item difficulty is an index that indicates if the test items are easy or difficult to answer. It refers to the proportion of individuals responding correctly.
  - ❖ This proportion is calculated by dividing the number of persons answering correctly by the total number of the individuals responding to the question.
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## Procedures of Item Analysis

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- ❖ Item discrimination is an index that refers to the extent to which a test item can differentiate between the testees.
  - ❖ Its calculation is based on the subtraction of the proportion of the persons of the low scoring group who answered an item correctly from the proportion of the individuals of the high scoring group answering correctly.
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# Item Analysis

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- ❖ Item analysis plays an important role in the process of testing and assessment as it helps to ensure the validity and reliability of the test items. Moreover, it is helpful for researchers since it enables them to check the effectiveness of the research instruments.
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# References

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- Cohen, Louis, Manion, Lawrence, and Morrison, Keith. (2007). *Research Methods in Education*. New York: Routledge.
  - Whiston, Susan C. (2008). *Principles and Application of Assessment in Counseling*. USA: Cengage Learning.
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