

NEW EXAMINATION MODEL

Basic methodological principles

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NEW EXAMINATION MODEL

- **Preparing of tests on the basis of Classical Test Theory requirements**
 - *Try out*
 - *Piloting*
- **Application of Scaling methods**

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WHY NOT IRT?

- × Problems with using common items in test versions - For transparency of UEE the decision to release of full test versions was made by NAEC.**
- × Time limit - More time for data base preparation was needed for IRT model**
- × Problems to explain and make clear IRT statistical model to public**

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SCALING

- 1. Probable differences between the versions of one test**
- 2. Possibility to compare scores gained by entrants in different subjects**
- 3. Possibility for entrants to conserve the Scaled Scores for the next year competition**

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SUBJECT

Examination Test

Number of Versions

Georgian Language and Literature	One Examination Test	4 versions
General Abilities	One Examination Test	4 versions
Modern Foreign Languages	One Examination Test in English Language	2 versions
	One Examination Test in Russian Language	2 versions
	One Examination Test in French Language	1 versions
	One Examination Test in German Language	1 versions
Mathematics (optional)	One Examination Test	2 versions
Georgian History and social sciences (optional)	One Examination Test	1 versions
Science (optional)	One Examination Test	1 versions
Literature (optional)	One Examination Test	1 versions

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SCALING

Following scaling method was elaborated:

First step

➔ **to equate the scores which entrants received in different versions of one examination test**

Second step

➔ **standartization of equated scores for each examination subject and allocating on one scale**

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SCALING

I Step

Goal: To provide compatibility of the scores received by entrants in different versions of one subject test.

Defining the cumulative score:

- **Defining rating of those entrants, who passed the same version of one test**
- **On the basis of cumulative scores establishing equity of the scores entrants received in different versions of one test.**

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SCALING

II Step

Goal: Allocation of scores in different subjects on one scale

- Defining mean and standard deviation for every examination subject
- Calculating Z score

$$\text{Scaled Score} = 15 * Z + 150$$

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Thank you!

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