*Abstracts of lectures and master classes*

Lecture (1.5 hours)

*“Two approaches to the assessment of learning results: measuring and scoring”*

Peter Nezhnov

Main goal – to introduce participants to the challenge of assessment of learning results.

The following questions to be examined:

* Measuring and scoring as a base for assessment of learning results
* Modern large-scale test as a tool for measuring and substantial specification of learning results. Who uses the testing data and how do they use it?
* Taxonomy of pedagogical goals as a tools of scoring - quality diagnosis of learning results. Taxonomy basis. Who and why needs scoring.

Lecture 2 (1.5 hours)

*«SAM – synthesis of measuring and diagnostics»*

Petr Nezhnov

**Main goal** – observation of assessment of learning results with SAM.

The following questions to be examined:

* Rating and assessment of test results by SAM
* Problem solving with SAM:
  + General understanding of educational goals by teachers, school administration and students
  + Professional development for teachers
  + Assessment of academic success
  + Assessment of teacher’s work
  + Motivation for learning
  + Determination of Zone of proximal development of students to choose individual pedagogical strategy
  + Negotiation of difficulties in mastering of high order skills.

Hand-outs:

* TIMSS Achievement levels paper
* TIMSS results diagrams
* Taxonomies

Lecture 3 (1,5 hours)

*«Measuring students educational achievements by SAM: regional experience»*

Elena Kardanova

**Main goals:**

* Acquaintance with the model of measuring student competencies by SAM.
* Acquaintance with experience of conducting of large scale assessment by SAM at regional level (Russia and Kazakhstan).
* Discussion of usage of information that was received during regional monitoring to improve quality of education in primary school.

The following questions to be discussed:

1. **The model of assessment of student competencies by SAM.** Participants will learn how to assess childrens educational competencies by SAM: methods of scaling and presentation of results, benchmarking, approaches to results interpretation, keys SAM rates.
2. **SAM research at regional level**. The SAM research on example at regional levels in Russia and Kazakhstan.
3. **Presentation of SAM results and its analysis at regional level:** Forms of presentation of SAM results to be discussed, regional standards, possible options of results analysis. In particular, examples of research of characteristics of educational environment that have an impact on educational quality of primary school will be demonstrated.

Lecture 4 ( 1,5 hours)

*«Assuring of the quality and validity of SAM tool measurements»*

Elena Kardanova

**Main goal of the lecture** – to outline and discuss with participants the process of tests creation on the example of SAM model, including all varieties of psychometrics and valid researches, and also description of the process of translation, adoption, localization when used in a different language and culture.

Following questions to be discussed:

1. **Stages of developing of SAM tests**. Participants will be presented with process of development of SAM tests. It will include organizing and conducting of approbations to check functioning of tasks and research on backbone features of the test.
2. How to conduct analysis of psychometrics features of tests and tasks**?** How to assess quality of tests?
3. **SAM validization.**  Participants will be presented with basic results of research on SAM validity (content validity, construct validity, criteria validity).
4. **Special aspects of adoption and localization of SAM when used in different countries.** Procedures of translation, verification of linguistic and constructive equivalence, conduction of accompanying adoptive research.

Workshop 1( 3 hours)

*“Issues of assessment of educational results in mathematics”*

Sergey Gorbov

Main goal – to introduce participants to the question of assessment of educational results in mathematics and demonstrate the solution that SAM offers.

The following questions to be presented:

* Issues of math education.
* Configuring math content in test. Content Content domains.
* Test construction. Levels. Level indicators. How the test tasks are made.
* Teachers professional development.
* Securing of focus of pedagogical influence.

During the workshop participants will be offered to solve and investigate SAM mathematics test tasks.

Hand-outs:

* SAM content matrix
* SAM math test items with keys

Workshop 2( 3 hours)

*«SAM case history: from school level to regional level»*

Alexey Vorontsov

**Main goal of the session –** to demonstrate different opportunities and potential of SAM results usage for different parties of education (policy makers, school principals, teachers, students and parents).

Its an interactive session. Participants will be offered to play different roles: regional educational authority, school principal, teacher, students, student’s parent so they could understand and form a conclusion, management decisions on the base of test results and familiarity with SAM.

While practicing participants will be able to:

* Make a correlation between educational standard and curriculum (e.g. Russia), to improve primary school teachers qualifications (e.g. private educational institution “Developing education”), school control of the management and SAM possibilities;
* Highlight typical problems of learning/teaching that can be easily determinated by SAM;
* Get acquainted with examples of practical usage of SAM at school level (Moscow school #1133): school administration, teacher, student at the level of 2 Russian regions; (Yamalo-Nemetskiy region – regional monitorings of 5-7 grades with 2 years gap; Krasnoyarsk region – SAM diagnostics of “strong” schools);
* Discuss SAM impact on educational policies at different levels of education system (federal – impact on national testing; regional – changes in development of regional educational program; school – selection of “right” educational system (program) and text books).

Participants will be working with hand-outs (case) that will help to see diversified practical possibilities of SAM, for improving of teaching/learning, for changing of “philosophy of assessment” of modern educational achievements.

Hand-outs:

* Recommendations of SAM results utilization for Methodists
* Analysis of numeracy monitoring results
* Application of SAM for practical formative assessment
* Recommendations for Department of Education YANAO for utilization of dynamical results of students educational achievements