THEORETICAL FOUNDATIONS OF INTERNATIONAL PROGRAMS IN EDUCATIONAL CONTENT

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Annotation. This article describes the main purpose, mission, plan of the International Assessment Study. The importance of the TIMSS international study in improving the effectiveness of mathematics has been highlighted.

Keywords: International Assessment study, mathematics and Natural Sciences, assignments, TIMSS.

The fact that, as a result of the reforms carried out in our country in recent years, indicators of tremendous economic growth are being achieved further increases the demand for qualified personnel and mature specialists in all areas.

This in itself requires an increase in the nature of our students 'interest in classes and a strengthening of teachers' attention to comprehensive educational upbringing. The fact that the above requirements are very important for the educational system means that advanced experiments aimed at improving the quality of education should be involved in the field, by evaluating and monitoring the development of educational and scientific fields, as in most foreign countries.

More than a hundred countries in the world participate in international assessment studies such as PISA, TIMSS, PIRLS, TALIS, EGRA and EGMA in order to objectively assess the quality of Education introduced in their country. It is envisaged that Uzbekistan will participate in PISA and other international assessment studies for the first time. The decree of the head of state "on approval of the concept of development of the public education system of the Republic of Uzbekistan until 2030" of April 29, 2019 sets out the tasks of achieving the entry of PISA into the top 30 most advanced countries of the world by the rating of the Student Assessment Program by 2030. We all realize that today, as a result of the reforms carried out in our country, the achievement of huge economic growth indicators will further increase the demand for the training of highly qualified conscious specialists in all areas. This, of course, requires increasing the interest of our self-taught students in classes and increasing the attention of our teachers to all-round educational upbringing. The fact that these requirements are very important for the educational system means that advanced experiences aimed at improving the quality of education should be involved in the fields by evaluating and monitoring the development of educational and scientific fields, as in most foreign countries. A special place in this is the reforms carried out by the president of the Republic of Azerbaijan to improve the effectiveness of teaching mathematics in schools, prevent possible problems and shortcomings, actively participate students in mathematics and get decent places in the Science Olympiads. On May 7, 2020, the decision of the president of the Republic of Uzbekistan "on measures to improve the quality of Education in the field of Mathematics and the development of scientific research" was signed. Each of the decisions signed by our president aimed at showing that the young generation of future followers will be thoroughly mastered from the school period, will be able to compete with students in foreign countries who are equal to them with the knowledge gained, and will not leave the educational system of Uzbekistan from any other country. Also, by the decree of the Cabinet of Ministers of the Republic of Uzbekistan No. 997 of December 8, 2018 "on measures to organize international research in the field of assessment of the quality of education in the public education system", the National Center for the implementation of international research on the assessment of

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the quality of Education was established under the state inspectorate of On the basis of this decision. the following international studies were established in Uzbekistan: PIRLS – assessment of the level of reading and understanding of the text of primary 4th graders; TIMSS-assessment of literacy of 4th and 8th graders in subjects of natural - scientific orientation; TALIS-study of the environment of teaching and learning in general secondary educational institutions and working conditions of teachers; PISA-assessment of These projects serve to assess the creative and critical thinking skills of the student-youth, the ability to apply the acquired knowledge in everyday life through various tasks, and then develop these skills on their own. For example, TIMSS - (Trends in International mathematics and science study) is an international mathematics and natural science teaching prospects program organized by the International Association for the Evaluation of educational achievement IEA (International Association for the Evaluation of Education Achievements), This study determines the quality, level, attitude to Science, interest of education in mathematics and natural sciences among 4th and 8th grade students. In the states conducting research, mathematics and Natural Sciences in the school are further studied the essence of education and factors related to the educational process, educational institution, teachers, students, their families. Based on the development of the TIMSS study, a special document is obtained "TIMSS assessment Frameworks and Specifications", in which, with a general approach to these directions, concepts for testing and test tasks for mathematics and natural sciences are given, as well as all types of learning activities are displayed when the student performs the task, the data obtained during the survey shows the The international TIMSS study includes: Test achievements, surveys, methodical Provision, program provision.

In terms of directions, each option includes questions from mathematics and Natural Sciences for evaluation. Assignments of different types are used (with a choice of short, complete and perfect answers, answers to practical assignments). The theory of Test assignments is used in the assessment of 4th and 8th graders in mathematics and Natural Sciences. This theory includes a limited number of assignments from 60-70 to clarify (based on the questionnaire) the indicators of the student, teacher and educational institution involved from each state. The TIMSS program, which began its first study of itself in 1995, has been established every four years as of 2019 in 1999, 2003, 2007-2011,2015 and 2019. The next 8th periodicity is planned to be implemented in 2023. By participating in TIMSS and other international studies, the application of the experience of developed countries in the educational system of Uzbekistan will have the opportunity to compare its results in comparison with the results of other countries. TIMSS questions are such that they can get high scores if they not only work out mathematical examples and issues, but also comment on them. In the TIMSS international study, where squares, roots are involved in questions of the eighth grades, a calculator is provided as part of the screen interface for each test task. For the fourth classes, however, no calculator is provided. If the test task involves measuring length, the drawing is presented as part of the interface. It is said that mathematics is a part of a person's life from elementary grades and is always faced with it in everyday life. Mathematics is the science of quantitative relations and spatial forms of the real world. Solving issues in mathematics develops the thinking skills of students. Solving some visual issues develops the thinking abilities of students, expands the scope of imagination and continues to form the skill of making deep judgments on it. In conclusion, a huge number of methods and technologies are used today to increase the independent thinking, logical thinking of young people, followers of our future. International programs and assessment institutes study theoretical frameworks for funding the quality of education around the world and assist in the development of programs. They help identify educational programs, train teachers, evaluate education, and create innovative teaching methods.

Also, in order to improve the quality of education, laws and measures are being taken by our honored President, and for the further development of mathematics, TIMSS, taking part in

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International Studies, students also assess the knowledge of young people and learn to what extent the knowledge received is, and most importantly, learn to apply the knowledge gained in everyday life, and their experience This is the essence of the international TIMSS study. First of all, in the study of each subject, diligently, carefully, if studied, will be able to pass any tests. In addition, each teacher should be able to integrate and connect mathematics with other subjects, since each subject is interconnected and serves as a key factor in the students 'more robust access to the knowledge they receive.

References

- 1. 1. Bakhtiyarovich, U. D. (2022). IMPROVEMENT OF THE SYSTEM OF NATIONAL STRATEGIES IN THE PROCESS OF REFORMS IN THE SPIRITUAL AND EDUCATIONAL SPHERE OF THE UPDATED UZBEKISTAN. *INTERNATIONAL JOURNAL OF SOCIAL SCIENCE & INTERDISCIPLINARY RESEARCH ISSN: 2277-3630 Impact factor: 7.429*, 11(05), 99-102.
- 2. Хамрақулов, 3. Й. (2022). Хуқуқшунослик фанларини ўқитишда замонавий таълим технологияларидан фойдаланиш. Pedagog, I(3), 314-318.
- 3. Хамрақулов, 3. Й. (2022). Хуқуқшунослик фанларини ўқитишда замонавий таълим технологияларидан фойдаланиш. *Pedagog*, *1*(3), 314-318.
- 4. Khamrakulov, Z. (2022). PROBLEMS OF INCREASING LEGAL INFORMATION AND LEGAL LITERACY OF YOUTH. *Models and methods in modern science*, *1*(16), 4-7.
- 5. Egamberdiyeva, T. U. A., & Qurbonov, J. A. (2020). Diagnostics of formation and development of intellectual culture among students. *Scientific Bulletin of Namangan State University*, 2(4), 512-519.
- 6. Akmaljonovich, K. J. (2019). The necessity of developing intellectual culture of students by the subject of philosophy. *European Journal of Research and Reflection in Educational Sciences Vol.*, 7(12).
- 7. Qurbonov, J. A. (2019). Social-pedagogical content of intellectually cultural pointh. *Scientific Bulletin of Namangan State University*, *1*(5), 437-442.
- 8. Akmaljonovich, K. J. (2021). The Content and Essence of the Concept of "Intellectual Culture". *European Journal of Humanities and Educational Advancements*, 2(5), 15-18.
- 9. Akmaljonovich, K. J. (2022). Role Of Philosophy Education In Forming Intellectual Culture In Future Teachers. *Journal of Positive School Psychology*, *6*(11), 1366-1371.
- 10. Акмалжонович, Қ. Ж. (2020). ТАЛАБАЛАР ИНТЕЛЛЕКТУАЛ МАДАНИЯТИНИ РИВОЖЛАНТИРИШДА ФАЛСАФА ФАНИНИ ЎҚИТИШНИНГ ПЕДАГОГИК ЖИҲАТЛАРИ. Современное образование (Узбекистан), (6 (91)), 42-49.
- 11. Акмалжонович, Қ. Ж. (2019). Талабалар интеллектуал маданиятини ривожлантиришнинг фалсафий-педагогик жиҳатлари. Современное образование (Узбекистан), (10 (83)), 3-9.
- 12. Akmaljonovich, K. J. (2022). Objective and Subjective Socio-Pedagogical Factors for the Formation of Intellectual Culture in Future Teachers. *American Journal of Social and Humanitarian Research*, *3*(12), 148-151.
- 13. Юлдашева, М. М. (2017). Жамиятда ёшларнинг турли иллатлардан асрашнинг самарали йўллари. *Молодой ученый*, (4-2), 59-60.
- 14. Юлдашева, М. М., & Каршиева, Ш. В. (2017). Ёшларимизнинг маънавий-гоявий шаклланишида интернетнинг роли. *Молодой ученый*, (4-2), 58-59.
- 15. Юлдашева, М. М. (2017). Мамлакатимизда ижтимоий-иқтисодий ва демократик ислоҳотларнинг амалга оширида миллий ғоя ва миллий тафаккурнинг ўрни. *Молодой ученый*, (4-2), 56-58.

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- 16. Юлдашева, М. М., & Тобиров, О. К. (2016). РОЛЬ СМИ В ЖИЗНИ ОБЩЕСТВА. Ученый XXI века, 29.
- 17. Юлдашева, М. М., & Тобиров, О. К. (2016). СЕМЬЯ И ИДЕОЛОГИЧЕСКАЯ ДИСЦИПЛИНА ПОВЫШЕНИЯ ЭФФЕКТИВНОСТИ СИСТЕМЫ ОБРАЗОВАНИЯ. Ученый XXI века, 17.
- 18. Юлдашева, М. М., & Аъзамов, Б. М. (2016). Бузғунчи ва вайронкор ғоялар ва уларнинг характерли хусусиятлар. *Молодой ученый*, (3-1), 63-64.
- 19. Юлдашева, М. М., & Каршиева, Ш. В. (2016). Ёшларнинг маънавий-мафкуравий хуружларнинг объектига айланиб қолиши сабаб. *Молодой ученый*, (3-1), 64-65.
- 20. Юлдашева, М. М., & Рузиматов, У. С. (2015). РОЛЬ МОЛОДЁЖИ В ФОРМИРОВАНИИ СИСТЕМЫ ИДЕОЛОГИЧЕСКОГО ИММУНИТЕТА. Ученый XXI века, (12).
- 21. Urinboyev, D. (2019). Thoughts About Stratagema Of Western And Eastern Thinkers. *Scientific Bulletin of Namangan State University*, *1*(4), 147-151.
- 22. Bakhtiyorovich, U. D. (2022). Features of the manifestation of strategems and the relationship between them. ASIA PACIFIC JOURNAL OF MARKETING & MANAGEMENT REVIEW ISSN: 2319-2836 Impact Factor: 7.603, 11(11), 96-100.
- 23. Bakhtiyarovich, U. D. (2022). IMPROVEMENT OF THE SYSTEM OF NATIONAL STRATEGIES IN THE PROCESS OF REFORMS IN THE SPIRITUAL AND EDUCATIONAL SPHERE OF THE UPDATED UZBEKISTAN. *INTERNATIONAL JOURNAL OF SOCIAL SCIENCE & INTERDISCIPLINARY RESEARCH ISSN:* 2277-3630 Impact factor: 7.429, 11(05), 99-102.
- 24. Baratbayev, B. B. (2021). Structural Directions Of Modern Concepts Of National Development Models Of Uzbekistan And Russia. *The American Journal of Political Science Law and Criminology*, 3(01), 15-20.
- 25. Ravshanov, F., & Baratbaev, B. (2021). Structural Directions of National Development Models of Uzbekistan and Russia. *INTERNATIONAL JOURNAL OF MULTIDISCIPLINARY RESEARCH AND ANALYSIS*, 4(01), 64-67.
- 26. Baratbaev, B. B. (2020). STAGES OF DEVELOPMENT OF NATIONAL MODELS OF DEVELOPMENT OF UZBEKISTAN AND RUSSIA. *Journal of Central Asian Social Studies*, *1*(02), 21-32.
- 27. Баратбаев, Б. (2020). METHODS OF FORMATION OF MODELS OF NATIONAL DEVELOPMENT IN UZBEKISTAN AND RUSSIA. МЕЖДУНАРОДНЫЙ ЖУРНАЛ КОНСЕНСУС, 1(4).
- 28. Baratbaev, B. (2020). PROCESSES OF ORGANIZING NATIONAL DEVELOPMENT IN THE CONDITIONS OF THE INDEPENDENT REPUBLIC OF UZBEKISTAN AND THE RUSSIAN FEDERATION. *East European Scientific Journal*, 2(11 (63)), 10-13.
- 29. Баратбаев, Б. (2021). Россия тараққиёт моделини амалга тадбиқ этиш сиёсати ва унинг натижалари. *Общество и инновации*, 2(1/S), 194-202.
- 30. Баратбаев, Б. (2021). Политика реализации модели развития России и ее результаты. Общество и инновации, 2(1/S), 194-202.
- 31. Davronovich, M. A. (2022). HUMAN PHENOMENON IN THE DEVELOPMENT OF NEW UZBEKISTAN. ASIA PACIFIC JOURNAL OF MARKETING & MANAGEMENT REVIEW ISSN: 2319-2836 Impact Factor: 7.603, 11(11), 40-42.
- 32. Davronovich, M. A. (2022). PHILOSOPHY OF THE CONCEPT OF HAPPINESS IN UZBEK AND ENGLISH. ASIA PACIFIC JOURNAL OF MARKETING & MANAGEMENT REVIEW ISSN: 2319-2836 Impact Factor: 7.603, 11(11), 37-39.

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- 33. Davronovich, M. A. (2022). PHILOSOPHICAL VIEWS OF RENE DEKART IN THE WORK "THE FIRST PHILOSOPHY". *INTERNATIONAL JOURNAL OF SOCIAL SCIENCE & INTERDISCIPLINARY RESEARCH ISSN:* 2277-3630 Impact factor: 7.429, 11(06), 176-180.
- 34. Azizjon, M. (2022). COVERAGE OF ISSUES OF RAISING THE SPIRITUALITY OF A PERSON IN THE PHILOSOPHICAL VIEWS OF ABU MANSUR MOTORIDI. *Yosh Tadqiqotchi Jurnali*, *1*(5), 422-428.
- 35. Davronovich, M. A., & Kholmirzayevich, M. I. (2020). THE DEVELOPMENT OF SMALL BUSINESS AND ITS SOCIO-ECONOMIC AFFECTS. *MODERN VIEWS AND RESEARCH*, 33.
- 36. Toshpulatov, R. I. (2022). MODERN METHODS AND TENDENCIES IN TEACHING INFORMATION TECHNOLOGY. International Journal of Pedagogics, 2(09), 43-46.
- 37. Toshpulatov, R. I. (2022). THEORETICAL FOUNDATIONS OF INFORMATION TECHNOLOGY. International Journal of Pedagogics, 2(09), 53-57.
- 38. Ismailovich, T. R. (2022). CURRENT ISSUE OF DISTANCE LEARNING. INTERNATIONAL JOURNAL OF SOCIAL SCIENCE & INTERDISCIPLINARY RESEARCH ISSN: 2277-3630 Impact factor: 7.429, 11(09), 152-155.
- 39. Ismailovich, T. R. (2022). CREATING COMPUTER PROGRAMS USING SPECIFIC PROGRAMMING LANGUAGES. INTERNATIONAL JOURNAL OF SOCIAL SCIENCE & INTERDISCIPLINARY RESEARCH ISSN: 2277-3630 Impact factor: 7.429, 11(11), 436-440.
- 40. Ismailovich, T. R. (2022). A competent approach to the formation of an information technology environment in the process of modern education. Journal of Pedagogical Inventions and Practices, 13, 3-5.
- 41. Aminov, B. U., Ibragimovna, M. S., & Qizi, X. M. X. (2023). ECONOMIC REQUIREMENTS AND COMPETENCIES FOR LEADERS IN GENERAL SECONDARY SCHOOLS. Conferencea, 44-46.
- 42. Ibragimovna, M. S., Aminov, B. U., & Qizi, K. S. A. (2023). Certification of General Educational Institutions as A Type of Quality Monitoring of Basic Educational Programs. Czech Journal of Multidisciplinary Innovations, 18, 7-9.
- 43. Эргашева, Д., Аминов, Б., Зияев, А., & Хайдарова, М. (2020). FORMATION OF STRONG-WILLED QUALITIES IN THE PROFESSIONAL TRAINING OF FUTURE SPECIALISTS. Scientific and Technical Journal of Namangan Institute of Engineering and Technology, 2(8), 370-374.
- 44. Эргашева, Д., Аминов, Б., Зияев, А., & Хайдарова, М. (2020). БЎЛАЖАК МУТАХАССИСЛАР КАСБИЙ ТАЙЁРГАРЛИГИДА ИРОДАВИЙ СИФАТЛАРНИ ШАКЛЛАНТИРИШ. ФИЗИКА-МАТЕМАТИКА ФАНЛАРИ ФИЗИКО-МАТЕМАТИЧЕСКИЕ НАУКИ PHYSICAL AND MATHEMATICAL SCIENCES, 1, 370.
- 45. Madumarov, T., Haidarov, R., & Gulomjonov, O. (2023). IDEAS OF HUMANISM IN THE WORK OF ALISHER NAVOI. Eurasian Journal of Law, Finance and Applied Sciences, 3(2), 116-118.
- 46. Nasriddinovich, A. A. (2022). A CULTURE OF TOLERANCE IN ISLAMIC RELIGIOUS THEORETICAL SOURCES. Galaxy International Interdisciplinary Research Journal, 10(6), 1201-1205.

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