

ABSTRACT

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Title "Pedagogical Conditions for Increasing the Internal Intellectual Potential of Students (Specializing in Physical Education and Sports)"

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Relevance of the research topic. Education and scientific development remain critical issues in the Republic of Kazakhstan, particularly in the realm of physical education. In his Message to the people, President of the Republic of Kazakhstan Kassym-Jomart Tokayev noted: "it is necessary to pay special attention to the sports and creative potential of the younger generation"... "It is very important for children to direct their efforts and interest in the right direction in such difficult times as today. Aren't children the future of our state?!" - believes that sport has great benefits for human life [3].

In the course of the analysis of the scientific research, the priority of the topical issues of the imperfection of personal self-determination was determined. When studying the scientific literature relevant to the topic under study, the contradictions of our study of this problem were revealed.

Through the analysis of scientific literature, several contradictions in educational processes have been identified:

- A gap between pedagogical conditions for enhancing intellectual potential and the educational content delivered.
- A misalignment between student interests and the lack of personalized approaches to intellectual development.
- Discrepancies between educational content and the cultivation of an integrated scientific worldview.

These contradictions formed the foundation of this dissertation and choosing the topic of a scientifically oriented study of the internal intellectual potential of students caused by differentiated contradictions "**Pedagogical conditions for increasing the internal intellectual potential of students (for specialists in physical culture and sports)**".

The purpose of the study: To identify effective pedagogical conditions for enhancing students' internal intellectual potential and validate these through experimental practice.

The object of the research is the pedagogical process in higher educational institutions.

The subject of the study: pedagogical conditions for increasing the internal intellectual potential of students (for specialists in physical culture and sports).

Research hypothesis: if educational methodologies incorporate tailored approaches to students' intellectual potential, and pedagogical conditions are adapted to align with students' needs and societal demands, then the intellectual potential of students can be significantly enhanced.

In accordance with the set goal and the subject of the study, the developed hypothesis identified **the research objectives:**

- 1) Define the methodological foundations for fostering students' intellectual potential;
- 2) Determine the role of the stochastic paradigm in intellectual development;
- 3) Assess the impact of motor activities on students' cognitive abilities and intellectual growth;
- 4) Establish pedagogical frameworks for enhancing intellectual potential;
- 5) Develop and propose techniques for integrating intellectual development into physical education;
- 6) Create innovative tools and technologies to support intellectual growth;
- 7) Conduct experimental validation of the proposed approaches.

The main idea of the research: pedagogical conditions conducive to the development of students' internal intellectual potential, meeting the needs of a new society, the diagnostic conclusion of the characteristic skills of each individual in mastering the subject of physical culture and the application of several (empirical, algorithmic, stochastic) paradigms taking into account its practical capabilities.

Research methods. On the subject of the research topic, the following methods were consumed:

- analysis of scientific, psychological and pedagogical literature, in the course of theoretical work with dissertations related to the problem under study, study and analysis of regulatory and legislative documents, expertise, generalization;
- empirical research methods: analysis, generalization, from particular to general, from general to particular, survey, conversation, diagnostic tests, observation;
- conducting a pedagogical experiment: defining, shaping and controlling the stages;
- when summarizing the results of the study, methods of qualitative and quantitative analysis, generalization, control, and analysis of experimental data were used; the results of the study showed a strong correlation between the level of academic achievements of participants and the results of tests of general and internal (hidden) intellectual abilities (CCAT and IO4). The Pearson correlation method was used to determine the correlation; the Student's T-test method was used to determine the uniformity of samples and the independence of two similar test results. The method of "creativity test" by E.P. was applied. Torrance, a formative diagnostic map in the process of increasing the intellectual potential of students, the "Williams divergent thinking test", an intermediate test section.

The research base. The study was conducted at the following institutions: Non-profit Joint Stock Company "Toraighyrov University" (S. Toraighyrov Pavlodar State University), non-profit Joint Stock Company "A. Margulan Pavlodar Pedagogical University" (Pavlodar State Pedagogical University), Pavlodar, Republic of Kazakhstan.

The main stages of the study:

At the first stage (2017-2018), a theoretical analysis of the scientific works of domestic and foreign researchers on the research topic was carried out, the scientific and conceptual apparatus of the study was determined, the current state of the research problem was studied, the place of the stochastic paradigm in the development of increasing the internal intellectual potential of students was determined, an educational and methodological basis was developed.

At the second stage (2018-2020), the influence of effective use of motor activity in the development of students' internal intellectual potential on the art of thinking was revealed, pedagogical foundations for increasing students' internal intellectual potential were identified, approaches (concepts) were proposed, pedagogical conditions were developed, the content of experimental testing was determined, the course of experimental work was developed and implemented.

At the third stage (2020-2022), an analysis of the progress of the developed experimental work was carried out, the necessary processing was carried out, the results obtained were summarized and systematized, conclusions were drawn, and the material obtained as a result of the study was designed.

Scientific novelty of the research:

- 1) methodological basis of students' inner intellectual potential;
- 2) the place of the stochastic paradigm in the development of students' inner intellectual potential;
- 3) the influence of effective use of motor activity in the development of students' inner intellectual potential on the art of thinking;
- 4) the pedagogical basis for increasing the internal intellectual potential of students, a textbook;
- 5) techniques for increasing the internal intellectual potential of students in the discipline of physical education;
- 6) technologies and conditions for increasing the internal intellectual potential of students;
- 7) checking the results of increasing the internal intellectual potential of students through experimental work.

The theoretical significance of the research estimates the methodological basis of the internal intellectual potential of students for the first time fully defines the scientific and educational foundations of the process of improving thinking from the form of the history of pedagogy. The fundamentals of the discipline "Physical culture", namely "the content of education" and "the content of learning", their fundamental importance for didactics, are comprehensively analyzed. The role of new innovative technologies in increasing the internal intellectual activity of students is revealed. The doctrine of the concept of "inner intelligence" is explained by the appearance in the unity of concepts: ontology, axiology, epistemology. The paper reveals the possibilities of the problem of modular and information technologies.

The practical significance of the research provides the ways, approaches, and methodological form of increasing the internal intellectual potential of students are analyzed and studied. Conditions for increasing students' abilities to inner intellectual thinking the possibilities of using innovative educational technologies in the activities depending on the need and interest are considered. The structure of the textbook, a set of tasks, and types of work with diagnostic cards have been implemented. In the educational process of Toraigyrov University, teachers of the educational organization were given the opportunity to use research materials and publications during classes for students, as well as organizing independent and research work.

Validity and reliability of the research results: the theoretical provisions of the study were methodologically justified: the systematic consideration of the problem of

increasing the internal intellectual potential of students; the evidence of the results obtained with the experimental practice of the educational form; compliance with the purpose and objectives of the study with the forecast; the duration of the experiment (defining, forming, controlling stages); statistical analysis and obtaining confirmed results; inclusion of the research results in the learning process.

Conclusions proposed for protection:

- the methodological foundations of students' internal intellectual potential are defined as conclusions;

- on the basis of internal motivation, motivation of needs, reflection, in the epistemological and axiological context, the subject of activity and personal possibilities of increasing the internal intellectual potential of students are determined;

- the influence of the effective use of motor activity in increasing the internal intellectual potential of students on thinking is revealed;

- the pedagogical basis for increasing the internal intellectual potential of students is proposed;

- classified and differentiated approaches and conclusions on improving the internal intellectual potential of students in the discipline of physical education;

- pedagogical conditions have been created to increase the internal intellectual potential of students;

- based on all the conclusions, the process of increasing the internal intellectual potential of students has been experimentally tested.

Approbation and implementation of research results have been presented at international scientific and practical conferences (Kuala Lumpur, Malaysia, 2017) - 1 publication; in journals recommended by the Committee for Quality Assurance in the Field of Science and Higher Education of the Ministry of Science and Higher Education of the Republic of Kazakhstan (S. Toraigyrov Pavlodar State University, Bulletin of PSU, pedagogical series; non-profit joint stock company "Toraigyrov University", "Bulletin of Toraigyrov University", pedagogical series) - 4 publications; a scientific article published in a foreign journal of international scientific data registered in the Scopus information database – 1 publication (Spain, Retos, 2023, #49, pp. 713-729); 1 textbook; introduction to the educational process 7 acts are presented.

The structure of the dissertation: the research work includes the main title page, normative references, definitions, designations and abbreviations, introduction, first part, second part, third part, conclusion, list of references and appendices.