

tions are presented. It is shown convergence and exact numerical solutions.

Asymptotic properties of the both combined methods are discussed. We also give examples in which the numerical and the exact solutions are compared.

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### LIFEWARE REALIZATION AS SITUATION OF SUCCESS IN EDUCATION

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The Russian society has been performing its life changes complex process focused on democratic transformations for the last years. Humanitarization of education is becoming an integral part of higher school renovation, is the means of students' panhuman culture formation. Most likely the new type of education will appear as a projective one called up to convert the culture in accord with those changes, which take place in the social development. The higher education quality is the key element, when creating the European Higher Education Zone. More than ever a further development of methods, approaches and criteria of quality assurance at all the levels (institutional, national, European) is necessary now. The quality as-

surance is the prime responsibility of higher educational institutions and it provides the basis for the academic community real responsibility. The training of specialists should be assured not only by the teacher's professional competency high level, but also by the conditions for the development of new educational technologies oriented to personality growth, the learner's peculiarities revelation, the acknowledgment of his subjective experience as originality and inherent worth, the composition of pedagogical effects with the agreement of individual and social experience. The entry of the human into the new development epoch, the change for the interaction with the help of global communications is attended by the realization of the fact that the outside world possesses simultaneously both the properties of integrity and multiplicity. In the constantly changing society the human is offered a wide range of choice, when solving professional and personal problems, that increases the degree of individual responsibility. Due to this the axiological, and it means – humanitarian, aspect of life grows.

The requirements made for the future specialists in conditions of the changes taking place in the society are, first of all, a high level of abilities to realize their intellectual possibilities, to use all their creative potential for displaying initiative and entrepreneurial spirit, solving problems in conditions of market economy harsh mechanisms. That is why the learner-centered education having the humanitarian aspect as the leading one, can create conditions for sound manifestation and development of personal functions of the educational process subjects, create the situation of learners' success.

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*Short Report*

**CONDITION CHANGE DYNAMICS AND  
COMPETENCE STRUCTURE DIAGNOSTICS  
OF FUTURE PHYSICAL EDUCATION  
TEACHERS**

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Functional competence of future physical education teachers is considered as a part of their professional competence, characterized by mastering their main pedagogical functions (knowledge – ability – skills).

The problem is increasing future physical education teachers functional competence.

Actuality of the problem is the future physical education teachers professional physical education quality increasing process.

The object of the research is condition and functional competence of the future physical education teacher dynamics.

The subject of the research is condition and functional structure competence dynamics of the future physical education teachers (knowledge – ability – skills).

The purpose of the research is experimental study of the Kama state academy of physical culture, sports and tourism future physical education teachers condition and functional competence structure dynamics.

The task of the research is:

1. To analyze peculiarities of the future physical education teacher functional competence according to courses of study;

2. To conduct systematic – structural analysis of the Kama state academy of physical culture, sports and tourism future physical education teachers functional competence characters.

3. To reveal directions of the future physical education teachers functional competence formation process correction.

4. The methods used in research are:

- a) Questionnaire
- b) mathematics-statistical processing of the result.

The diagnostic instrument is a questionnaire «Portabe function diagnostics card of the physical education teachers» (Imashev, 1998) comprising 100 knowledge – ability – skills as functional elements of the 10 main physical education teachers pedagogical functions.

Organization of the research. 170 extra-mural fifth course students of the Kama state academy of physical culture, sports and tourism were offered to give information about their functional competence level according to the following rules:

– «zero» – no knowledge about the given functional element;

– «one» – there is knowledge about the given functional element;

– «two» – there is ability (the given functional element is used at least once);

– «three» – there is skill (the given functional element is used automatically).

The research is done from September 2004 up to June 2005.

The results of the research show that changing dynamics of the future physical education teachers functional competence is progressive: differences between future physical education teachers functional competence meanings are valid.

For revealing the system of structurally interconnected groups of functional competence influencing upon future physical education teachers general functional competence forming correlation factors between all functional competence meanings were found. They were formed into mutually connected matrixes, between main pedagogical functions and correlation pleiades were built.

Students of the first course have projecting pedagogical function with the most correlation factors meanings.

Students of the second course as system forming factor have constructive, projecting and mobilization pedagogical function.

Students of the third course don't have vivid system forming factor but a tendency of communicative, developing and mobilization pedagogical functions.

Students of the fourth course as system forming factors have the orientation – educative pedagogical function which correlates close to the constructive and projecting pedagogical functions.

Students of the fifth course have the tendency to the developing and mobilization pedagogical functions.

So, the hypothesis is completely confirmed:

1) dynamics of the Kama state academy of physical culture, sports and tourism extra-mural faculty future physical education teachers functional competence changing is progressive;

2) the basic of future physical education teacher functional competence forming process is projecting (1 course), constructive (2 course), mobilization (3 course), orientation (4 course) and developing (5 course) pedagogical functions which harmoniously coexist with other pedagogical functions in the correlation pleiad.

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