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INNOVATIVE TECHNOLOGIES IN EDUCATION
(Problem of the quality education and students' employment)
ІННОВАЦІЙНІ ТЕХНОЛОГІЇ В ОСВІТІ

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Abstract. ACME-EDUCATION OF NATIONAL PERSONALITY The article deals with the problem of innovative development of national identity based on the principles of acme-education through the usage innovative computer technology and its relationship with important scientific and practical tasks neuropathology, acmeology and stable development. The concepts of «cybernetically acmelogical neuro-padagogy», «ambidekstr» are represented in the article. It is underlined the necessity of gender approach in training and education. The features of development of boys and girls are found out. The types of functional asymmetry of the brain are described. The characteristics of left - and right-handed are given. Particular position is devoted to the effectiveness of methods of dual training and education. The classification of personality types and their properties are highlighted. The role of individual cyber-strategies' approaches to the training and education is emphasized.
Key words: acmeology, *education*, information, system, neuron- teacher, psycho- genetic, psycho- biology.

Introduction. The problem of students' current qualitative and quantitative professional employment is very relevant not only for students of the Polytechnic University, but for any higher educational institution in Ukraine. In the monograph of M. Zgurovsky, Rector of the National Technical University of Ukraine " Igor Sikorsky Kyiv Polytechnic Institute" titled "The Bologna process: main principles and ways of higher education of Ukraine structural reforming" (K: NTUU" KPI "- 2006. - 544 p.) that is stated in paragraph 5.8 "General conclusions and recommendations for employment in the context of the Bologna process" (p.140).

Main text. There has been, in particular, underlined, that "employment of graduating students at higher educational establishments is the capstone of the Bologna process. Employment is one of primary purposes for higher education single European space creation". Further reading says: "It is totality of achievements (the skills, awareness and personal traits), that extends the prospects of graduating students of higher educational establishments from the point of the job choice and

success within the chosen profession and serves to the graduating students' benefit, labour force, society and economy, in particular. Society, labour-market and private persons expect from higher education the substantial investment in realization the constant employment, including continuous self-development. Quality education provides for that wide possibilities. It is needed to spend further efforts to the wider and effective use of recognition tools for mobility and employment expansion at the national, European and international levels".

Taking into account conclusions drawn and employment recommendations for the higher educational establishments' graduating students in the context of the Bologna process at the National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute", scientific-research work is conducted mainly on the conception and principles of systems' analysis, innovative technologies, regarding the basic concepts of acmeology and cyberacmeology. The mentioned above includes students' qualitative studies acceleration, their professional activity and arranging workplaces for them.

An analysis of systems is the scope of concepts, methods and technologies for a study, description and realization of the systems of different nature and character. Major setting for the systems analysis is to get recommendations on management and improvement issues of system processing. The basic concepts for the systems analysis are as follows: the system, subsystem, element; connection between the systems, subsystems, elements; structure of the system; purpose of it; functioning and development of the system; its models. Considering the basic concepts, methods and technologies of the systems analysis, we are to undertake acmeology problems researches and development in Ukraine, those which are timely and perspective. The problem of acmeology introduction, development and realization has been investigated in the different areas like science, technology, economy and education with modern information technologies (IT) application. In 2005 the new direction in acmeology development was founded by one of authors (V.M Antonov).

Cyberacmeology is a science about technological modelling of personality's creative individuality development and improvement; project methodology for new knowledge in relation to technology of desirable result achievement: success, power, health, prosperity for architectonics (harmonious connection of parts is in single unit) technological models and methods aimed at personality's creative self-development on the evolutional way towards creative maturity; term, that was introduced for denotation of new direction in research, analysis and introduction of the mathematical acme-systems, based on such sciences' principles as: cybernetics, acmeology, synergetics, behaviourism, creativity, cognitive and other similar spheres; concept that allows to analyse any mathematical problem from the fuzzy-technology position, using here soft computing, attractive points of bifurcation and to take effective mathematical decisions with the use of acme- possibilities of teacher/ student. Conception of cyberacmeology consists in personality's talents and capabilities theoretical and practical development and application on the basis of modern information technologies (IT) due to acme-points of a man achievements methodology in different fields, situations and realization of the created model based on phylo- and ontogenesis. Principles of cyberacmeology have an important value,

namely: structuring own subjective experience on the basis of CIT; forming autocreativity; constructing the inner world of man; communication and human communication in particular; intellectual synergy of personality; cognition of humanity acmeology; creative behavioural personality; programmeming of rapid intellectual studies; effectiveness of the creative reasoning; genetic and dynamic peculiarities; interactiveness and *iterated*ness*; multi-dimensional environment realization; forming the world individual maps due to human filters; alternativeness and co-ordination; positiveness and structuralness in goal achievement; cognitive three-dimensional and balanced vitality of the man's functions (intuition, consciousness, subconsciousness); creative resourcefulness and potential energy and opportunities; modeling of successful synergetic and creative personality; creativity self-development*; environmental friendliness and harmony. A new theoretical paradigm has been built on the Person Harmonization concept developed with consideration of the basic concepts of analysis of the systems worked out, acmeology and cyberacmeology. It consists in the following:

1. Acceleration of professional activity and actualization of person-centered professional staff development on the basis of cyberacmeology (CA).

2. Cyberacmelogical problem of a person's professionalism development.

3. Cyberacmediagnostic research methods in a person's professional work.

4. Cyberacmelogical professionalism of a person's activity in extreme situations.

5. Development and introduction of applied cyberacmeological technologies as techniques used for the person's creative self-*: development; -perfection; -education.

6. Application of cyberacmeology for a person's creative potential and reflectiveness study and development.

7. Cyberacmeology and development of a person's autopsychological competence of with the aim of professional health storage and of professional competence increase.

8. Cyberacmelogical and psychological bases.

9. Development of the staff's cyberacmelogical of professional, social and perceptive competence.

10. Cyberacmelogical individual person's style in his professional activity in the modern world.

12. Cyberacmelogical motivation of professional activity and achievement of success: in a career, artistic life, health, studies, etc .

The special place is given to the practical aspect of Cyberacmeology realization on the basis of acme- IC planning and realization. Aimed at quality studies improvement of students and their further acme employment "Acme Harmony" website was created by us dealing with the problems of testing, diagnostics, professional orientation of students and all interested persons. *Job description technology* is a scheme of requirements to profession study concerning the internals of person in accordance with subject genesis: psychological descriptions; social psychological indexes; the naturally-genetic capabilities (to the phylo- gene); to the acquired habits (to the onto- gene); the business internals; by professional knowledge and ability; to the state of man's health as job descriptions. *Correction job description*

is oriented on the increase of professional labour safety with factors analytical description, the source of dangerous man's behavior when performing a concrete profession. *Diagnostic job description* is oriented to the study of certain labour characteristics like technical, legal, technological, social -psychological, hygienical, psychological, psycho-physiological and others. The acmelogical monitoring serves to education upgrading, could be presented through: 1) Monitoring determines the complex of scientific means of operative supervision, analysis, control of the complex object changes of the state in accordance with normative requirements. 2) Acmelogical monitoring is the system of continuous (dynamic, pseudo- dynamic control) personality professional development in the process of pre-service of the specialists; their In-service and post-graduate requalification training; personal professional development correction if it is needed. *Acmelogical training* is the means of optimization, preparation, retraining, raising the person's professional competence level on the basis of programme technology with special purpose. The practical conclusion drawn on all mentioned above MC realization is: creation of complex of acmelogical procedures for an improvement and correction of professional mastery of a person.

Conclusion. Thus, we may state, that cyberacmeology is a new and perspective science, that embraces the wide and deep area of problems, questions, functions of harmonious personality current development. The approach has been approbated at distant study of Mathematics. Thus acme - man builds and realizes his functionally harmonious life on basis of: self-regulations, -organisation, -determination, self-perfection, self-realization, -estimation, -development, -expression, - actualization and others regarding the innovative Internet-technologies, Healthcare management and computer design.

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