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THE PECULIARITIES OF PROFESSIONAL TRAINING OF BACHELORS IN CYBERSECURITY: AMERICAN MODEL

The aim of this paper is to determine the course of research and to highlight its results. Thus, a comprehensive study of bachelors' professional training in the field of 'Cyber Security' at US universities and colleges was conducted. In particular, the features of the training structure (flexibility, sociability, autonomy, orientation towards the needs of employers, the diversity of its types, forms of organization and funding sources; social partnership between the State and the community, the interaction of the major participants in the bachelor's study programme in the United States, etc.) have been explored and revealed.

The report deals with the theoretical and practical relevance of professional training in the field of information technology, in particular bachelor's degree in cyber security. The precondition for the mentioned study of bachelors in cybersecurity professional training of Higher education in the United States has become the need to reform the higher education system in Ukraine and the development of advanced models for cybersecurity training and its further development of national higher education systems; *of the need to reform the higher education system in Ukraine and the development of prospective models for training specialists in cyber security for the further national system development of higher education; lack of scientific research and practical development; the government's interest in specialists in related areas what can be reflected in the disciplines chosen for study.* The practical value of following research is to demonstrate the most relevant scientific-methodological recommendations to be used for curriculum improvement and its further implementation into the higher education of Ukraine. The results of scientific research can be used in the psychological, pedagogical and comparative studies; foundation of special courses dedicated to the problems of pedagogical innovations.

The scientific novelty of the obtained results and the theoretical significance of the study is that for the first time in the national pedagogical science a comprehensive analysis of the bachelors' professional training in the field of 'Cyber Security' in higher education American model was carried out; the organizational, pedagogical and didactic principles of the cybersecurity bachelor's professional training in the American higher education system are disclosed; a comparative-pedagogical analysis of the cybersecurity bachelor's professional training in higher education institutions in the United States and universities in Ukraine was conducted.

The peculiarities of the study content are the multidisciplinary nature of teaching and learning, double majors studying, and the introduction of cybernetic security specializations in other specialties, the integration of the theoretical and practical components in the process of specialists training.

The process of students' practical training of the cyber security bachelor degree is the foundation for the qualification level formation of future security industry specialists, in the preparation of which a scientific component should be involved [5, c. 173].

The training of a highly skilled specialist is impossible without the integration of different types of educational institutions into the industrial sphere of enterprises at the state and regional levels, that is, without a practical component of training [1, c. 35]. The development of new state standards for the preparation of bachelors on cybersecurity will make it possible to adjust the conditions for their practical training at a potential job. This is a necessary and very important element of the reform of higher education in Ukraine, without which it is impossible to qualitatively prepare specialists and bring our education closer to the international level. The study examined the provision of practical training for bachelors in cyber security in the educational process of American higher education institutions.

The comparative and pedagogical analysis of the cybersecurity bachelor's professional training in higher education institutions in the United States and Ukrainian universities gave the basis for the extrapolation possibilities of American experience constructive ideas into the system of higher technical education in Ukraine on the strategic, organizational, and content levels.

REFERENCES

1. DHS. (2012). Task Force on Cyber Skills. *Cyber Skills Task Force Report. D.o.H. Security.* Washington, DC, 1–41.

2. Diorditsa, I. (2017). Kvalifikatsiyni vymogy do kompetentsiy fakhivtsiv z kiberbezpeky. *Informatsiyne pravo*, 2, 215–219.

3. Dubov, D. (2010). Kiberbezpekova polityka u konteksti transformatsii polityky bezpekt USA administratsyi B. Obamy. *Politychnyi Management,* 1, 155–163.

4. Higher Education in the US. (2016). *Higher Education in the US.* Retrieved from http:// www.iclass.ru/study_abroad_high_usa/.

5. Zubyk, L. (2016). The Analysis of Structure of Training of Bachelors in Information Technology. *Molod and Rynok,* 3 (134), 173–174.