

REPORT
on the EDUCATIONAL AND PROFESSIONAL PROGRAM
"DISTRIBUTED PROGRAM SYSTEMS AND TECHNOLOGIES"
in the specialty 121 "Software Engineering"
the second (Master) level,
the field of knowledge "12. Information Technology"
Kyiv National University of Construction and Architecture

The information systems and technologies, and methods of conceptual design development, is a prerequisite for the introduction of science-intensive technical solutions, hardware and software components of information technology in almost all areas of modern society, which gradually covers the processes of the 4th Industrial Revolution and production transformation for the conception of the “Industry 4.0”.

Unfortunately, Ukraine is not yet a leader in these areas, and Ukrainian stakeholders, international investors, and integrators are still determining whether Ukraine has the appropriate educational and scientific infrastructure, whether the political force is for rapidly modernizing Ukrainian industry for massively and rapidly introducing new modern technologies.

Therefore, one of the actual and very important goals for Ukraine is to focus on the training of researchers in the field of information technology. The achievement of this task can give the necessary competitive advantages and provide a breakthrough for the Ukrainian researchers and engineers on regional and global markets for science-intensive products and services.

Kyiv National University of Construction and Architecture (hereafter – KNUCA) has the relevant experience, understanding of the innovation culture, powerful human resources and material and technical base for performing this goal for preparing of the Doctors of Philosophy in information technology.

The Educational and Professional Program (hereafter – EPP) for the second (Master) level of the high education in the specialty 121 “Software Engineering” has been developed by KNUCA’s specialists in collaboration with scientists and potential employers who confirmed the need in the specialists preparing in the frame of the chose focuses of this specialty.

The program competencies in the EPP are defined on the base of the requirements of Ukraine's legislation and the "Industry 4.0" needs. They are split on general and special (professional) competencies. Special competencies are practical and can be used in the professional activities of future researchers. The curriculum of the preparation of the Doctors of Philosophy is fully correspondence with the EPP objectives. The sequence of mastering the EPP components, the plan and schedule of the educational process, the list, and scope of mandatory and elective courses correspond to the structural and logical scheme of training of higher education (second level) in specialty 121 "Software Engineering" and is aimed at ensuring both the training program results and potential employers (stakeholders) requests simultaneously.

Taking into account information in above, I believe that the peer-reviewed EPP can be recommended for training in KNUBA specialists in higher education at the second level (Master) in specialty 121 "Software Engineering".

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