



**POLITECHNIKA
GDAŃSKA**

WYDZIAŁ INŻYNIERII MECHANICZNEJ
I OKRĘTOWNICTWA



Gdańsk, 18.10.2022

Review

of educational and professional program entitled “Automated and robotic mechanical systems”, first (bachelor's) level of higher education, specialty - 131 Applied Mechanics, National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnical Institute»

The Program under review is the base for the studying of specialists in automation systems and tools in a quite wide field of industry. The spread of intelligent control systems for various devices is specified by as purely economic indicators as the expansion of the list of tasks suitable for automation. All of this requires the formation of specialist's synergistic view of automated objects, which combine electromechanical, hydraulic, pneumatic and mechanical devices, information technologies, electronic equipment of obtaining, processing and transmitting information and energy flows of significant power management.

The advantages of the reviewed educational and professional program are:

- The specified general competencies provide the opportunity to educate a high-quality specialist in automation and mechatronics with sufficient fundamental knowledge and skills, a versatile professional outlook and the possibility of rapid professional development and self-study in various fields of both technical and humanitarian direction;
- Professional competencies of the specialty and program learning outcomes, which indicate all the necessary and important skills that a modern specialist of this specialty should possess, namely: the ability to work independently and / or in a team on the task of automation with the use of cutting-edge engineering methods for the correct formulation of the task, its solution by designing, constructing and modeling, choosing a rational solution method and analyzing the obtained final results and evaluating their effectiveness;

Emphasis of the professional studying cycle specifically on disciplines directly related to the subject of the educational program.

Among the wishes regarding the improvement of the educational and professional program "Automated and robotic mechanical systems ", I would like include the need for clarification in the general competency GC12: it must be added that "ability to search, process and analyse information from various sources" primarily deals with foreign sources of information, because the greatest achievements in the field automation are made by foreign scientists and specialists from the USA, Great Britain, Germany, Japan, China, etc.

In the section "9 - Academic mobility" it should be added that teaching "The possibility of teaching in a foreign (English) language" can be not only for foreign students, but also for local students who have expressed a desire to study in English.

Despite the abovementioned wishes, in my own opinion, the educational and professional program of bachelors' training " Automated and robotic mechanical systems" is actual and promising in the conditions of modern industrial development of Ukraine.

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