

NUBIP University Kyiv  
-to whom it my concerns-

## REVIEW

for the educational program for training specialists of the bachelor's level of higher education in the specialty

" Automation, computer-integrated technologies and robotics "

Automation today is the main and decisive direction in the further development of technology and the most important means of further increasing labor productivity. Automation of technological processes in production helps to improve product quality, save raw materials, energy, materials, increase labor productivity, save electricity, and reduce production costs. Therefore, an urgent task today is the high-quality training of specialists in the specialty "Automation and computer-integrated technologies".

The educational program for training specialists of the bachelor's level of higher education in the specialty "Automation, computer-integrated technologies and robotics" contains: the amount of ECTS credits required to obtain the appropriate degree of higher education (240 ECTS credits); list of graduate competencies; the normative content of the training of applicants for higher education, formulated in terms of learning outcomes; forms of attestation of applicants for higher education; requirements for the presence of a system of internal quality assurance of higher education.

An important feature is that the experience of Ukrainian and European universities was used in the formation of goals and program learning outcomes.

The educational program ensures the formation of the future specialist's ability to dynamically combine knowledge, skills and abilities in solving problems and problematic issues in the field of automation in the development and research of automated control systems for complex objects and technological processes. A feature of the educational program is the focus on the assimilation of professional knowledge and the formation of skills for the development and implementation of the latest automation systems of complex objects that are important for Europe. The list of competencies of educational programs corresponds to the current European standards of education.



Anyhow I would like to do some comments (potential areas of further improvements):

The "Language of Teaching" is indicated with *Ukrainian, English*, which is absolutely great and important. Esp. the industry is more and more demanding English skills, but maybe for BA students it is a challenge. But if you do some modules in English, it would be nice, to indicate which ones, also to attract international students for an Erasmus exchange semester.

**English for engineers** should be compulsory! Only "*foreign language*" is not enough.

The amount of ECTS is often very different, again for international student exchange, also for UA students going to EU Universities -in the frame of the Bologna process- it might be more helpful, if more subjects would be more evenly e.g. 5 ECTS.

Whereas the amount of the (written?) *diploma thesis* with is very little with 5 ECTS. Also the *industrial practice CC21* could be longer.

The "final control" is indicated with "Exam and Test", I think some subjects could have better/other forms to check the competences of the students e.g.: presentation of a prototype (CC20 and others), written report (CC20 and others), oral questioning (CCU 2&4) or practical exercise (CCU5 and others) etc.

Thanks for the honor. You are on a great track. Wish you big success.

Best regards,

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