



**Prof. Dr. S. Byelikov,**  
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Thursday, 24 September 2020

**Subject: Support letter for accreditation request**

Dear Prof. Dr. S. Byelikov,

I am writing this letter in order to support for your accreditation request. The program proposed for accreditation is the result of joint efforts of Ukrainian, Israeli and European partners in the development of interdisciplinary medical and technical education in the European educational space. These efforts were carried out during the implementation of the joint ERASMUS+ project 586114-EPP-1-2017-1-ES-EPPKA2-CBHE-JP «Innovative Multidisciplinary Curriculum in Artificial Implants for Bio-Engineering BSc/MSc Degrees» (BIOART), for which I am the coordinator.

In Ukraine, and especially in the Zaporizhzhia region, with a fairly wide coverage of the specialties in purely medical care, there is poorly developed training for specialists in the design and maintenance of medical equipment, implants and prostheses. Such a situation impedes progress in the field of healthcare and reduces the possibilities of healthcare institutions in terms of using modern technology. Therefore, one of the main aims of the project was enhancing the educational possibilities in the medical-technical area of education, following the current level of development in electronics, information and communication technologies.

An important feature of the creation of this program was the principle of targeted sharing of European experience in teaching particular courses. Lecturers from the National University "Zaporizhzhya Polytechnic", as well as other Ukrainian partner universities, were able to attend training weeks at leading European universities, during which their experience in the organization and teaching of the different courses was transferred to the Ukrainian partners. The application of this experience in the form of separate modules was a prerequisite of the project and is under the control of the corresponding ERASMUS+ coordination offices of the European Union and Ukraine. In particular, in the following we detail the European higher education institutions (HEIs) where the different courses originated, and where training was received:

- The modules for the courses "Machine Learning and Artificial Intelligence" and "Biomedical signals, signal processing" originated at Universidad Politécnica de Madrid (Madrid, Spain).

- The courses “CAD of Biomedical Devices and Structures” and “Medical Information Infrastructure” originated at KU Leuven (Mechelen, Belgium).
- The courses “Embedded Biomedical Systems and Wireless Sensor Networks” and “Methodology of Scientific Research” originated at Donau-Universität Krems (Krems, Austria).
- The courses “Biomedical Materials and Constructions” and “Modern Nanotechnology” originated at Politechnica Krakowska (Krakow, Poland).

Another important feature is the focus of ERASMUS+ projects on long and sustainable development of open educational programs. Therefore, for this project, national accreditation is one of the essential conditions for such development.

Summarizing the above, it can be argued that the opening of interdisciplinary programs in the medical - technical and medical - information - telecommunications direction is a modern and relevant approach not only for Ukraine, but also for European partners and Israeli HEIs. Therefore, I strongly support the accreditation of the program "Telemedical and biomedical systems".

Yours sincerely,

A handwritten signature in blue ink, appearing to read 'David Luengo', with a stylized flourish underneath.

Assoc. Prof. David Luengo  
Coordinator of BIOART CBHE Project