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To whom it may concern

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24.08.2023

Reference report on the master study program "Technologies of Chemical Synthesis and Physicochemical Properties of Organic Materials" in specialty 161 "Chemical Technologies and Engineering" at Igor Sikorsky Kyiv Polytechnic Institute

The Department of Chemical Technology of the Kyiv Polytechnic Institute (KPI) asked me to evaluate the MS graduate study program indicated above. Several students and researchers from KPI have visited my institute with the support of the European Union Erasmus Plus program, the German Academic Exchange Service (DAAD), and the Alexander von Humboldt program, and all visits were highly productive in scientific and personal terms. My personal experience allows me to confirm the high educational level of KPI students and principal investigators and their competence in various fields of modern chemistry, proving that the educational program at KPI is well built and balanced.

Apart from my general positive opinion about the students and teachers of KPI, whom I personally met during my visit to KPI before the war, I additionally requested a detailed description of the educational program "Technologies of Chemical Synthesis and Physical and Chemical Properties of Organic Materials" (hereafter referred to as the "Program").

The Program is divided into three categories, namely "Required Components of the General Training Cycle" (Cycle 1), "Required Components of the Professional Training Cycle" (Cycle 2) and "Selected Components of the Professional Training Cycle" (Cycle 3). From Cycle 3, subjects must be chosen by the students themselves in order to receive the required number of credits. In my opinion, the subjects are well balanced and cover all the necessary aspects of state-of-the-art

studying chemistry and chemical technology and fully correspond to the title of the Program. However, in my opinion, some of the subjects from the Cycle 1 should be replaced, in particular, the subjects "Marketing of chemical products" and "Intellectual property and patent science" should be transferred to Cycle 3 and replaced by subjects which are of decisive importance for modern technologies, such as, for example, "Modern trends in technology and engineering". At the same time, I am quite impressed with the set of items listed in Cycles 2 and 3. Cycle 2 covers the necessary educational components for the professional training of a modern chemist, then Cycle 3 provides ample opportunities for the students to choose a specialty in a particular field of chemistry, significantly expanding his/her knowledge in related fields.

All of the above allows me to conclude that the list of subjects in the Program is in good agreement with modern European educational concepts and corresponds to the high level of KPI teachers with whom I am familiar. This fully corresponds to the leading positions occupied by the Department of Chemical Technology of the Kyiv Polytechnic Institute in Ukrainian science and education.



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