Department of Physics and Engineering Physics

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Review for an educational and professional program "Energy efficiency microelectronics and electronic protection" second (master's) level of higher education by specialty 176 – Micro- and nanosystem engineering of the field of knowledge 17 – Electronics, automation and electronic communications

The presented educational and professional program is a comprehensive product that provides students with the acquisition of modern and relevant knowledge and practical skills in the development and application of new materials and micro- and nanoelectronic systems for electronics, solar energy, and elements of electronic protection. The program emphasizes studying and mastering physical approaches to solving these problems.

Based on the experience of scientific cooperation with the authors of the developed program, it can be said that they possess the necessary competencies to ensure the acquisition of skills and knowledge by students in the fields of solar energy, energy storage and conversion technologies, and electronic protection of modern systems against electromagnetic radiation pulses of various origins.

The training of specialists in the field of electronic protection is particularly relevant in light of current global events, ensuring that this educational program fully addresses modern challenges in the labor market and social aspects.

Another aspect of the program, aimed at acquiring knowledge in solar energy, is particularly relevant given the difficult situation in the energy sector of Ukraine and the active implementation of distributed generation principles. This aspect fully meets the modern challenges facing Ukraine's education system.

The department of micro- and nanoelectronics, whose specialists developed and implemented this educational program, has the appropriate range of scientific and technological equipment to support the practical work of students during their studies.

The authors of the educational program actively participate in international academic and scientific cooperation, particularly with Tulane University, ensuring a high level of teaching and the relevance of the knowledge taught to students. Additionally, students studying under this program have the opportunity to engage in academic mobility, allowing them to become acquainted with the latest achievements in their fields of study. This approach to training provides students with the opportunity to find employment in their specialty and pursue further scientific work.

The above points demonstrate the high relevance of this educational program and the need for students to master it.

Sincerely yours,

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