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## REVIEW ON THE EDUCATIONAL SCIENTIFIC PROGRAM "Environmental Safety Technologies"

Ph.D. training program for specialty 183 "Environmental Safety Technologies"

Environmental catastrophes of natural and man-caused nature happen all the time. Management of such events, understanding of the hidden environmental processes and their possible outcome, requires broad knowledge of the subject and existing remediation technologies. There is an obvious shortage of the trained environmental professionals in Ukraine which makes implementation of new educational programs extremely urgent.

The educational and scientific program "Environmental Safety Technologies", that has been developed and implemented by the Department of General and Theoretical Physics of Odesa State Environmental University, is a valuable addition in preparation of the environmental specialists of the highest qualification.

The environmental problems are widespread and only accelerates every year. Obviously, the environmental issues did not bypass Ukraine, in opposite, they are amplified by the Ukraine's geopolitical location and traditional industries like coal mining, nuclear power plants, steel making and other high pollution productions.

In its current situation, Ukraine needs new generation of high-quality trained specialists capable to work in the field of environmental safety and environmental protection, specialists with strong, fundamental knowledge of natural sciences, and particularly physics, being up to the task of protecting global environment.

The mission of the Odesa State Environmental University is to deliver the highest educational standards and training capacity for the future environmental managers of all levels, through creative learning and scientific research in accordance with the needs of society, fulfilment of the emergency request of the state, and Ukraine's immediate needs. The Odesa State Environmental University has the capacity to achieve these objectives, and deliver the ultimate result of training of highly qualified specialists in the field of environmental protection technologies.

The content of this program corresponds to the subject area of the declared specialization. Its subject's focal point is developed around the technology of environmental safety and protection from different impacts of artificial and natural origin. It takes into account anthropogenic impact and requirements for non-destructive use of natural resources.

The goals of this training program are educating the Ph.D candidates, providing them with a knowledge and a set of valuable skills for future use in their professional activities in the field of occupational safety, environmental protection, and balanced management of natural resources, as required by the standard of higher education for this occupation.

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Methods, techniques and technologies are standard, as well as the latest, which are based on the provisions of advanced fundamental science, in particular, physics. Namely, these are general scientific methods of cognition and research activity; collection, processing and interpretation and generalization and parameterization of the results of professional research, use, adaptation and development of theoretical concepts and models. Appropriate tools and equipment used in the program were also selected: equipment, hardware, and software necessary for field, laboratory, and remote studies of developing the theoretical foundations of technologies for protecting environmental systems of various levels and origins.

The Educational-Scientific Program "Environmental Safety Technologies" offered by the Department of General and Theoretical Physics of the Odesa State Ecological University allows to provide high-quality training for seekers to obtain a Doctor of Philosophy degree in specialty 183 "Environmental Safety Technologies". The peer-reviewed OSP contains all the necessary structural and content components, reflects modern requirements for specialists in the field of knowledge and meets the requirements of practical use of the knowledge and skills acquired by them.

**Best Regards** 

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