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# FORMATION OF CAREFUL ATTITUDE TO ENVIRONMENT OF FUTURE AVIATION SPECIALISTS IN PROCESS OF THEIR PROFESSIONAL TRAINING

Article deals with ways of formation of careful attitude to environment of future aviation specialists in the process of their professional training.

Today, Ukrainian society is developing in accordance with sustainable development, but the specifics of our State is its inconformity between extensive plans and realities. Therefore, we are witnessing that in the conditions of extreme growth of external phenomena imposed upon economic, social, cultural and political life of our society, the problem of development of global processes becomes a central issue of survival. In our opinion, current environmental problems of Ukraine are primarily induced by inconsistency of educational process, social, economic and natural resource development. Sustainable development, as it is known, intends a balanced development of economic, environmental and social systems and their simultaneous ability to self-regulation and renewal. To our opinion, education should be as a link between all components of sustainable development. Therefore, educational process in higher education must become a forward in training of highly qualified specialists in careful attitude for environment.

Article number of modern Ukrainian scientists who have worked on the formation of environmental consciousness, education ecologization, studying the competency building approach to the problem of environmental education in higher education establishment, formation of professional environmental university students competence in the context of sustainable development, environmental culture and environmental competence.

Article also deals with formation of a careful attitude to environment on example of Flight Academy of the National Aviation University.

So, having great experience, Flight Academy staff and administration focus all their efforts on environment preserving and forming of a careful attitude towards environment in educational process.

**Key words:** environment, aviation specialists, ecological culture, sustainable development, ecological consciousness.

Formulation of the problem. It is obvious that modern Ukrainian society is developing in accordance with sustainable development, but the specifics of our State is its inconsistency between implementation of big plans and realities. And we can observe that in context of intense growth of external factors imposed upon economic, social, cultural and political life of our society, it creates the problem global processes development and becomes the matter of survival. Inversely to the global trend - the current environmental problems of Ukraine, are mainly caused by inconsistencies in the processes of educational, economic and natural resource development and becomes the most important issue to be discussed. It is a common fact that, steady progression involves a balanced development of economic, environmental and social systems and their synchronous capacity to perform self-regulation and reproduction. In view of this, education should set the link between all components of the sustainable development. So far as it concerns about highly qualified professionals training in terms of their careful attitude to environment development, so it is the teaching process of higher education must become its forward upon this issues.

Current scientific researches and issues analysis. Subject of environmentalization of education, formation of ecological awareness, study of competence approach to the problem of ecological education at institutions of higher education, formation of professional ecological competence to university students in the context of sustainable tasks development, formation of ecological culture and ecological competence are highlighted in such modern Ukrainian scientists' works as.

G. Bilyavsky, Bolshak L, Vargo O, Kiselyova M, Saunova Y. Skladanovska M, Mateyuk O, Tunitsa Y. and others [1-10]. Contrary to a fairly large number of research articles, still the issues of education environmentalization are remained to be unsolved; specifically it goes to a point of practical implementation of the idea of ecological culture formation, thinking, and consciousness during the learning process in higher education.

**Purpose of the article.** In light of a problem statement and its insufficient insight, we offer to consider an issue of a careful attitude to the environment under adaptation to Flight Academy of NAU context. One of the important factors for the environment preservation and reproduction is man's attitude to environment, while taking it not in wide sense, but at a more local level. And it is exactly the low level of ecological consciousness, ecological culture of society, which led to significant ecological decay of Ukraine environment, excessive pollution of surface and groundwater, air and soil, accumulation of very large amounts of harmful, including highly toxic, industrial waste. Such processes have lasted for decades and resulted in repid deterioration of people health, birth-rate failing and increased mortality, rising of emigration, and this totally endanger the existence of Ukraine nationality in itself.

The refore, the aim of the scientific work was to declare the ways of Flight Academy of NAU development in terms of careful attitude for the environment in process of aviation specialists' training.

In the furtherance of this goal, it is necessary to solve the next tasks:

- analyze students / cadets level of environmental knowledges at institutions of higher education in Kropyvnyts'kyy;
- describe the experience of FA NAU in the line of ecological consciousness development;
  - outline development options of FA NAU towards environmental friendiness.

**Presentation of research basic material.** Consider several areas of FA NAU development in the direction of careful attitude to environment during training of aviation specialists.

One of the directions is ecologization of education. Over the last 10 years, we have surveyed the level of environmental knowledge among students and cadets of educational institutions in Kropyvnyts'kyy, which revealed that young people do not have good and systematic knowledge of the nature laws, environment [11-12]. School curricula "Ecology", for subject-oriented education in 10-11 grades, should complete school environmental education, the basis of which is to determine the place of Ukraine in modern global sustainable development by the degree of nature environmental management. Offerd course must not only give an idea, but also to form an awareness of modern environmental trends: a new attitude to nature; new strategies of interaction with the nature. But, unfortunately, school leavers due to age peculiarities can not fully adapt their environmental knowledge, and do not have formed environmental ideas about environmental laws.

Subject "Basics of Ecology" is now practically destroyed in non-major educational establishments. Today we see a desire of FA NAU authorities to bring ecology together with geography and meteorology, which is appropriate. Definitely, the basis for ecology study is both geography and meteorology, and many other disciplines. And here we may trace interdisciplinary connections, which are important for profound training of a modern specialist. But to take down three disciplines into one subject is a mistake, because young people don't receive basic knowledges on ecology at school. Hence, when coming to higher education institutions they are not ready to show full knowledges which are necessary for them as future specialists in their professional activities. Education course in higher education establishment must adapt and integrate theoretical skills and practical experience, which will become the basis for the balanced and stable functioning of society in future.

Thus, to our opinion, there are the next challenges and solutions:

- 1) it is necessary to perform "ecologization" of all subjects, using intersubject communications, and this can be done when teacher will have environmental thinking himself, trained inspired by environmental component;
  - 2) to bring back "Basics of Ecology" subject to the list of compulsory subjects to study;
- 3) when creating subject program, teachers should take into account future specialists' educational qualifications, in order to bring environmental knowledge to the specifics of students' and cadets' professional activity;
- 4) to create an ecological management of educational innovation in higher education establishments;
- 5) to develop and implement in educational institutions the concept of steady environmental development, which ultimate goal may lead to obtain the title of "Green University". A similar term is used to define the environmental level at higher education establishments in EU ("sustainability" or "greencampus"). It reveals information on percentage of waste recycling, compliance with environmental standards during construction works, procurement, etc., and it also says about students / cadets involvement in environmental projects, the availability of eco-certification, etc.

Thus, training of citizens with a high level of environmental knowledges, environmental awareness and culture is based on new criteria of evaluation indicator of relationship between human society and nature (not violence, but balanced coexistence with it!), It must become one of the main levers on solving of critical environmental and socio-economic vulnerabilities of modern Ukraine. Ecological education, as an integral cultural phenomenon, including learning processes, education, personal development, should aim for the formation of ecological culture in terms of national and public education system of all segments of Ukraine population (including environmental education with public environmental organization as well), academic subjects environmentalization and training programs, through basic environmental education [13].

In the context of FA NAU we consider the experience of careful attitude to the environment formation for future aviation specialists in the process of their professional training.

Realizing the responsibility of higher education formation of environmental awareness among young people in FA NAU in 2014 it began systematic work on creating the image of "Environmental Academy". Civic Organization "Eco-Alliance 4.0" was created by staff and cadets in 2015. In 2016, the Volunteer Center together with the student council developed a leaflets and posters explaining how to sort trash correct. With financial support of the International Fund for social adaptation (Kyiv), were ordered and manufactured litter-boxes for separate collection of waste, which were placed around academic buildings of FA NAU with informative posters. It also was carried out the explanatory work with academy cadets and staff on how to sort trash right. The same year, due to the initiative of Head of Academy, it was established Norwegian Ecological Square on the 2nd educational building territory. Trees and bushes were planted and water intake system construction works were done. Also worth noting is that since 2011 an exhibition: "Chernobyl tragedy through young people eyes" is held every year in April where cadets exhibit their drawings.

Year 2016 was rich in the eventsat in FA NAU. Among the other events, there was the Ecofestival which took place in April. Employees of Kirovohrad Regional Center for Ecological and Naturalistic Creativity of Youth and Kirovohrad Regional Center for Tourism, Local History and Excursion demonstrated their achievements. Representatives of Kirovohrad training and production enterprise of the Ukrainian association of the deaf people showed their products. Representatives of Kirovohrad Regional Art Museum, Civic Organization "Sonyachnyy Zaychyk", Kirovohrad Regional Center for Children and Youth Creativity held their handmade master classes. Civic Organization "Vysoki Bayraki Kozatski" presented its pottery goods manufacture.

Also in April, a scientific environmental seminar was attended by the Deputy Head of the Regional State Administration, Director of the Department of Ecology and Natural Resources of Kirovohrad State Administration, representatives of State Ecological Inspectorate and the All-Ukrainian Civic Organization "E-Ecology" and others. During seminar it raised the importance of solving environmental problems by community together with the authorities, the creation and

operation of a Web-system of environmental management, the importance of environmental education from childhood and more.

On September 28, 2016 ecological seminar "Ecological problems of water resources of Kirovograd region" the took place in Flight academy. Purpose of this environmental seminar was to unite the efforts of environmental workers, scientists and practitioners on study of water resources in Kirovograd region and develop recommendations for improving and shaping the environmental awareness of people through practical and educational work. Seminar was attended by Deputy Director of Ecology and Natural Resources of Kirovohrad regional state administration; Deputy Head of Kirovohrad regional department of water resources; chairman of Kirovohrad regional branch of All-Ukrainian ecological league; coordinator of Ukrainian environmental public organization in Kirovohrad, public inspector for environmental protection of State ecological Inspectorate in Kirovohrad region; Head of hydrometeorological Service Department of Kirovohrad Center for hydrometeorology Service; Head of Kirovohrad Center hydrometeorology laboratory and others. Speeches of seminar attendee were generalized and set the basis of resolution. Among them was to appeal to Kirovohrad authorities of Kirovograd region with recommendations to strengthen control over radionuclides content in fresh water which is transported to region population and to create a regional environmental laboratory equipped with modern equipment for drinking water quality and other components of the environment. Also it was recommend to the legislative and the executive power to develop and approve a unified state valuation technique for water quality, water resources, taking into account international experience and criteria of influence (public, administrative, criminal) on environmental pollutants.

The same year, 2016, on basis of Academy, representatives of Google Ukraine, Civic Organization "e-Ecology" and Civic Organization "Eco-Alliance 4.0" conducted a training seminar in question / answer mode for town and region environmentalists.

Employees of Flight academy together with cadets and students annually hold community work days, which means to clean academy park and to plant new plants.

It is worth pointing out that in curriculum of FA NAU there are such subjects as "Ecology", "Ecology of air transport", "Environmental security of civil aviation". Annually professors publish their scientific works, do tutorial work and actively participate in ecological activities both at the Academy and outside [14-15].

Another step towards environment improvement in region and involving the higher educational establishments is to write and implement projects which are created by Academy staff:

- "Construction of a workshop for integrated environmental research (R & D) on basis of Flight Academy of the National Aviation University for need of the region" It is designed to achieve correct level of information provision over the radioecological situation in Kirovohrad region, to develop recommendations and implementation of measures to minimize ionization radiation effect and maximum protection of human health and environment.
- "Regional system for monitoring of harmful emissions of technogenics dangerous installations during air drones using" It is aimed to create a modern data analytics system for monitoring of air quality problem caused by man-induced factors from milling of uranium ore in region.

To our deep conviction, it is a sign of a civilized society existence when we form a careful attitude to environment in young people, so environmental awareness-building and culture is instrumental in harmonizing of man and nature relationship. We are confident that only a collaborative work in the environmental sphere during Ukraine developing will help to unite efforts of administrative institutions, municipal government, science, education, business and public for the benefit of effective and comprehensive decision of environmental problems of our country.

Conclusions and directions for future research. Summing up in the course of our work we analyzed the level of students' and cadets'ecological knowledge in Kropyvnyts'kyy, we described the activities of Flight Academy of NAU in the direction of environmental awareness and culture formation in youth, teachers and staff of Flight Academy of NAU.

Having a great experience, staff and authorities of Flight Academy are focusing all their efforts on environment preserving and forming of a careful attitude towards it in the educational process.

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## ФОРМУВАННЯ ДБАЙЛИВОГО СТАВЛЕННЯ ДО ДОВКІЛЛЯ МАЙБУТНІХ АВІАЦІЙНИХ ФАХІВЦІВ У ПРОЦЕСІ ПРОФЕСІЙНОЇ ПІДГОТОВКИ

**Анотація.** У статті розглянуто шляхи формування дбайливого ставлення до довкілля майбутніх авіаційних фахівців в процесі професійної підготовки.

На сьогодні українське суспільство розвивається у відповідності до сталого розвитку, але специфікою нашої держави є неузгодженість між великими планами та реаліями. Тому ми є свідками того, що в умовах надзвичайного зростання зовнішніх впливів на економічне, соціальне, культурне і політичне життя нашого суспільства, проблема розвитку глобальних процесів стає центральним питанням виживання. На наш погляд сучасні екологічні проблеми України, перш за все, спричинені неузгодженістю процесів освітнього, соціального, економічного та природно-ресурсного розвитку. Сталий розвиток, як відомо, передбачає збалансованість розвитку економічної, екологічної та соціальної систем і одночасну їх здатність до саморегуляції та відтворення. І освіта, на наш погляд, повинна стати зв'язком між усіма компонентами сталого розвитку. Тому освітній процес у вищій школі повинен стати форвардом у підготовці висококваліфікованих спеціалістів з питань дбайливого ставлення до довкілля.

У статті зазначені сучасні українські науковці, які займалися питанням формування екологічної свідомості, екологізації освіти, вивчення компетентнісного підходу до проблеми екологічної освіти у ЗВО, формуванню професійної екологічної компетентності студентів університету у контексті завдань сталого розвитку, становлення екологічної культури та екологічної компетентності.

Також в статті розглянуто становлення дбайливого, небайдужого ставлення до довкілля на прикладі діяльності Льотної академії Національного авіаційного університету.

Маючи великий досвід співробітники і керівництво Льотної академії НАУ направляють усі свої зусилля на збереження довкілля та формування дбайливого ставлення до нього в освітнього процесі.

**Ключові слова:** довкілля, авіаційні фахівці, екологічна культура, сталий розвиток, екологічна свідомість.

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