

INTERDISCIPLINARY EUROPEAN GREEN STUDIES IN THE PRACTICE OF TRAINING ENVIRONMENTAL STUDENTS

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Анотація

Проведено аналіз змісту міждисциплінарного курсу «Європейські зелені виміри». Виокремлено критерії його оцінювання. Окреслено концептуальні засади формування змісту навчання. Результати відповідей по критеріям оцінювання змісту навчання (структурованість змісту; актуальність змісту; корисність змісту; комфортність викладу; якість візуалізації змісту; зрозумілість навігації по сайту) показали високі результати (більше 90%). Більшість респондентів оцінили курс як відмінний та добрий (більше 90%). Показано високу ефективність організації та формування змісту навчання.

Ключові слова: екологічна освіта; освіта для сталого розвитку; міждисциплінарні європейські студії; якість змісту навчання.

Abstract

An analysis of the content of the interdisciplinary course "European Green Dimensions" is carried out. The criteria for its evaluation are allocated. The conceptual foundations of the formation of the content of education are outlined. The results of the answers to the criteria for evaluating the learning content (structuring of the content; relevance of the content; usefulness of the content; comfort of the presentation; quality of visualization of the content; comprehensibility of navigation on the site) showed high results (more than 90%). The high efficiency of the organization and formation of the content of training is shown.

Keywords: environmental education; education for sustainable development; Interdisciplinary European Studies; the quality of the learning content.

Introduction

The quality of life and sustainable development of society depend on the ability to join forces. Today, the concept of sustainable development is one of the main documents for the development of the countries of the world and Europe. Among the main priorities of Ukraine's movement towards Europe are directives and regulations on sustainable development goals, as well as issues of adaptation to climate change. The issues of environmental safety and biodiversity conservation, environmental monitoring also remain relevant. War-time in Ukraine has shown the importance and priority of the integration processes of the country's national development strategy into European environmental policy [1; 2].

Against the background of modern eco-transformations, the ecology department of Petro Mohyla Black Sea National University has successful experience in implementing international projects for the implementation of interdisciplinary European studies in the training of environmental students. In particular, these are projects under the auspices of the EU Erasmus+ Jean Monnet programmes.

The main tasks that arise in the process of implementing interdisciplinary European green studies are: to demonstrate prospects for the professional development of future specialists in the green reconstruction of Ukraine; to reveal the versatility of environmental challenges in the context of climate change caused by decarbonization; to create a platform for networking between environmental specialists who have professionally realized themselves; outline the main environmental challenges that will be the focus of the coming years; to improve the content of training of professional ecologists; to promote and involve young people in projects related to environmental management, environmental safety; involve young people in projects and programs for the country's eco-transformation [3].

The content of interdisciplinary European Green Studies is aimed at revealing the following areas:

- ensuring the institutional capacity of Ukraine for the formation of a green course;
- decarbonization and transformation of energy strategy;

- climatic, food, environmental sphere;
- eco-specialists of a new generation and the development of the applied field of environmental protection;
- sustainable development strategy: looking to the future;
- management of professional development, environmental protection and marketing of eco-personality
- digital transformation of environmental management [3].

Research methods: Mathematical methods include statistical data processing, graphical representation of data for high-quality visual evaluation of results using MS Excel software.

The study was carried out within the framework of the project 101081525 – JM EUGD – ERASMUS-JMO-2022-HEI-TCH-RSCH.¹

Results

The main principles of the European green studies content are: internationalization (involvement of European specialists in teaching and research; opportunity to participate as students/learners of partner universities); integration of knowledge (implementation of interdisciplinary links in the content of courses) and open for wide stakeholders. The interdisciplinary approach is harmoniously combining knowledge from different fields of science and practice. The main centers of knowledge integration are sustainable development; environmental security; green policy; climate change, as objects of study from different sides, namely ecological, legal, economic, and social. Thus, Ukrainian students will find the opportunity to learn from European environmental experiences and enhance knowledge about the green policy throughout the courses.

The learning outcomes of students/learners after studying the course was be assessed in the form of testing. The final test has 40 questions, which mathematically accurately determine the coefficient of completeness of the student's knowledge, as the ratio of the number of correct answers to the total number of questions. The results of success are considered satisfactory if the coefficient of completeness of knowledge is more than 60 percent. Our study showed that the knowledge acquisition rate is more than 80 percent, which is a high indicator of knowledge acquisition and motivation of the audience to master it.

After each stage, participants are offered an anonymous questionnaire, which is asked questions about the quality of the presentation (indicators, that will be use: relevance of the topic, completeness of the material, methods, and forms of presentation of educational/scientific information on a scale of 2 (poor), 3 (satisfactory), 4 good), 5 (excellent). The results of answers to one of the key questions of the questionnaire are presented in the diagram of fig. 1.

Learning experience on the course from 1 to 5:

- 1 – very poor;
- 2 – poor;
- 3 – satisfactory;
- 4 – good;
- 5 – excellent.

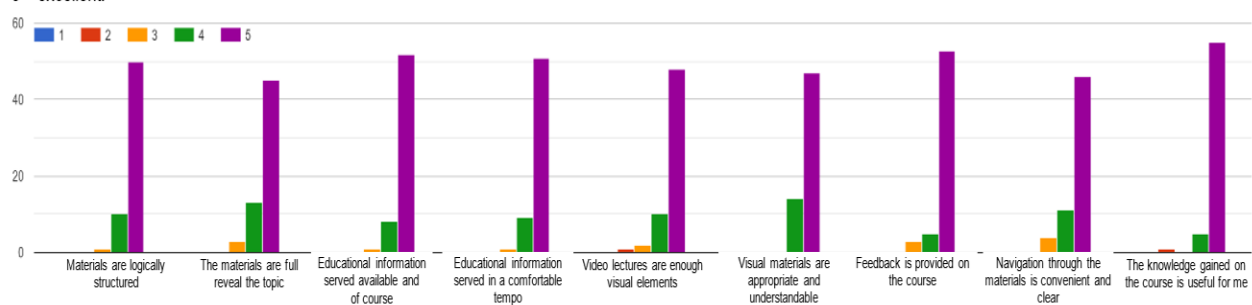


Fig. 1. A diagram for evaluating the quality of the content according to the criteria.

Conclusions

Thus, the practice of developing interdisciplinary European green studies at Petro Mohyla Black Sea National University made it possible to create a platform for networking between environmental specialists of

different institutions, as well as to enrich the content of the training of professional ecologists, to increase the level of their knowledge and competencies.

The results of the answers to the criteria for evaluating the learning content (structuring of the content; relevance of the content; usefulness of the content; comfort of the presentation; quality of visualization of the content; comprehensibility of navigation on the site) showed high results (more than 90%). The majority of respondents rated the course as excellent and good (more), which motivates the project team to further improve the content and structure of the course in the direction of improving visualization using interactive forms.

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