

***Turro Cobas, G. (2018). Pedagogic Conception of environmental formation from the university extension. (Tesis de Doctorado). Instituto Central de Ciencias Pedagógicas, La Habana, Cuba***

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The thesis was defended in 2018 by the Master Geovany Turro Cobas, with whom he obtained the category of Doctor of Pedagogical Sciences, and published that same year by the University Editorial (Havana), with ISBN 9789591641649, he is an Assistant Professor. Geovany Turro Cobas is a professor in the Geography department of the University of Guantánamo, he is currently the director of Human Resources and a member of the Antonio Núñez Jiménez Chair of this house of science and progress.

Author of several articles related to environmental education with results presented at national and international events, and published in Cuban and foreign magazines.

The research addresses environmental training from the university extension, a theme that makes evident the need to improve professional training in the pedagogical process carried out by the University of Guantánamo in order to face local environmental problems that affect the intra and extra-university community to influence in the initial formation of the students. These actions have nuances that distinguish them, because at the same time that the future professional affects the education of their students as part of their culture, they will be forming environmentally.

From this perspective, in universities it is important to introduce the environmental dimension in the substantive processes that take place in it (training, research and university extension)

in correspondence with the requirements of national environmental policy, considering the main development plans economic and social of the country, in order to promote the incorporation of a system of knowledge, habits, skills, behaviors and values, consistent with these needs.

The thesis establishes the general historical considerations and the theoretical-methodological references of the object and field of research, which allowed to base environmental training from the university extension.

The application of a system of educational research methods revealed the need to contribute to environmental training from university extension in students of pedagogical careers of the Faculty of Education at the University of Guantánamo.

The scientific novelty of this thesis lies in a pedagogical conception conceived from revealing the potential offered by the university extension and the educational spaces of the intra and extra-university community to treat local environmental problems, which considers the characteristics of the context community, aimed at environmental training.

The research report consists of an introduction, two chapters, conclusions, recommendations, bibliography and annexes. The introduction contains the essential elements of the theoretical-methodological design of the research process. Chapter I show the historical background of the research object, the systematization of the theoretical-methodological references of environmental training in pedagogical careers and the potential of university extension to contribute to environmental training. On the other hand, from the determination of the variable and its operationalization, the application of the instruments, the results of the diagnosis are offered, characterized by the limitations and potentialities, the current state of environmental training from university extension in the students of pedagogical careers of the Faculty of Education at the University of Guantánamo.

In Chapter II the theoretical foundations are presented from the philosophical, sociological, psychological, pedagogical and legal points of view that support the pedagogical conception of environmental training from the university extension. The theoretical evaluation of the conception is revealed through the expert criteria, the results of a pedagogical pre-experiment and triangulation which corroborates its validity.

The environmental training from the university extension encourages the student to go through a training process that allows the use of the educational spaces of the intra and extra-university community, and to model their way of professional action.

The pedagogical conception facilitated the preparation of the students and teachers from the educational spaces based on the experiences, experiences and knowledge of the environmental reality, which contributes to improving environmental training from the university extension and makes it possible to instill values such as: solidarity and responsibility with the components of the environment in your community.

The pedagogical conception, as a way of solving the problem posed in the research, is valid considering the current conditions of the pedagogical careers of the Faculty of Education at the University of Guantánamo.

The bibliography cites a total of 280 sources with a high level of topicality and relevance that corroborates the scientific and current level of the thesis.

## **Bibliographic references**

Turro Cobas, G. (2018). *Concepción pedagógica de formación ambiental desde la extensión universitaria*. (Tesis de Doctorado). Instituto Central de Ciencias Pedagógicas, La Habana, Cuba.