

TITLE: METHODS OF APPROACH AND PRACTICE OF THE CONTENTS OF BIOLOGY OF MICROORGANISMS IN THE COURSE OF LICENSING IN BIOLOGICAL SCIENCES OF THE EDUCATIONAL UNIT PENEDO/AL.

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ABSTRACT: The discipline Biology of Microorganisms is obligatory for the formation of the Biological Sciences teacher. It covers contents related to Bacteriology, Mycology and Virology, in a way applied to the local reality of academics. Aiming to reach the objectives of the discipline, methods of theoretical-practical study were used. The proposed activities involved the elaboration of a mental map, technical of Tony Buzan, with the objective of helping the students to organize and to express the information better; and the preparation of a home culture medium in order to demonstrate the existence of microorganisms in different environments. For the construction of the mental map, white boards, pencils, pen, marker, colored pencil and ruler were used. The culture medium was prepared based on the literature, having as main components broth and colorless gelatin. The ingredients were dissolved and brought to low heat and then distributed so as to cover the bottom of plastic containers with lid. Bacteria were collected from manipulated objects and fungi from the air. Colony growth and subsequent microscopic analysis were expected from 3 to 7 days. It was observed that during the making of the mental map, most of the students participated. The works produced served the content required, therefore, they approached classification, morphology, metabolism and genetics of microorganisms. It was noticed a greater interaction in the practical moment, since, with low cost materials, it was possible to make at home means that could later be seen the microorganisms studied in the classroom. Using the home culture medium, scholars were able to isolate and identify fungi from the air, visualizing the microstructures under a microscope and drawing. In this sense, the objectives of the activities were achieved, and awakened in the licenciandos, and future teachers, the possibility of adaptation and reproduction of the practices in basic education. In this way, the teaching of abstract contents of Microbiology becomes possible, attractive and effective in the teaching-learning process.

Keywords: Home Culture Medium; Mental map; Microbiology Teaching.