Artistic Applications of Nanotechnology as an Approach for Teaching Graphic Design at Umm Al-Qura University

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Abstract:
The goal of the research is to identify the plastic concepts of nanotechnology to be included in the graphic design programs in the Department of Technical Education at Um al-Qura University, by identifying the role of nano values added in raising the plastic performance of the outputs of design courses, to develop an existing proposed program to determine the role of the plastic applications of nanotechnology concepts in enhancing design areas. Methodology: The study used the descriptive analytical method to monitor the content of design courses, and the semi-experimental method to study the effect of nano catalysts on the compositional structure affecting the formation of design formulations, a sample of (10) students with 5 students for both the experimental and control group. The researcher used the technical education curriculum to provide a list of the artistic concepts of nanotechnology that are required in contemporary design programs according to the extent required to prepare the art teacher, after analyzing the content of the design courses according to the STEAM educational model to find out what it contains in the concepts of formation For nanotechnology. The results of the research contributed to determining the role of technical education programs in supporting inter-studies to benefit from nanotechnology, and recommended a partnership between the Department of Technical Education and the Institute of Nanoscience Studies.

References:
Keywords: