

# The use of glass technology and technical textiles in the production of printed textile hangings to increase the awareness of the aesthetic side in medical institutions

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## Abstract

Technical Textile Technology has remained unique to developed industrial countries, and it was established to perform specified functions in applied fields that are connected to the most of life activities in general. Using Technical Textile has become more widespread as performance and functional qualities in various application, based on final uses starting from choosing fibers to methods of treatment, is the key for developing new products in textile field. Technical Textile plays a vital and effective role in all life fields like: economic and social field.

The research aims to show the possibility of making use of technical textile in applied art by making printed textile hangings, to make use of its various qualities at first place inflammability and electrical insulation, and by combining textile printing techniques and glass technology for its significant impact in adding distinguished characteristics and creative artistic appearance, and in finding solutions, decorative and aesthetical treatments for printed textile posters in medical institutions, with the objective of providing adequate psychological atmosphere for the patients and the designs that can improve the surrounding environmental conditions, contributing to increase treatment efficiency.

**Keywords:** glass technology-technical textiles- printed textile hangings- medical institutions

## Research problem

**The research aims to answer the following questions:**

- 1- How possible is it to use glass technology and technical textile in to show the aesthetic and practical side in medical institutions?
- 2- How to combine applied arts specifications to create innovative and practical products.
- 3- How to protect a printed textile poster from environmental factors and how to increase its serviceable life?

**Research Aim**

- 1- Studying technical textile, its types and various uses.
- 2- Combining applied art specifications to find new and innovative designs
- 3-Applying and utilizing technical textile in producing printed textile hangings to highlight aesthetic sides to provide adequate psychological environment for the patients.

**Research importance**

- 1- Considering the rarity of researches that study technical textile as a new material to utilize, this current research is a basic step to proceed from, and is considered a sort of motivation for researchers to increase their interest in technical textile, with the objective of utilising it to solve different applied and technological problems in creative methods.
- 2- Combining textile printing techniques and glass technology to get new designs
- 3- Reflecting the artistic sides on the patients in medical institution.

**Research Hypotheses:**

- 1- The researcher assumes that using technical textiles in the production of printed textile hangings to increase the awareness of the aesthetic side in medical institutions
- 2- There are concessional fields to take advantage of the plastic value of plant elements in order to provide a suitable psychological environment for patients.
- 3- Ability to take advantage of the various technological means of silkscreen printing and glass technology for high-quality printed designs are enriches the design fabrics pendants.

**Research limits:**

The research deals with the experimental aspect, using the flat silk screen and glass technology to achieve aesthetic and practical values distinct for the design of pendants fabrics.

**Research Methodology:**

Experimental method: The researcher relied upon in dealing with creative aspect in the design of fabric pendants and applied technology in different ways.