



VIVEKANANDHA COLLEGE FOR WOMEN
Unjanai, Tiruchengode -637 205
Affiliated to Periyar University



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INTERNATIONAL SYMPOSIUM ON
ENLIGHTENING PLATFORM OF PHOTOCHROMIC TEXTILES



Organized By
Department of Textile and Fashion Designing
Department of Costume Design and Fashion
Vivekanandha College for Women, Tiruchengode

MP MITHILA PUBLICATIONS

INTERNATIONAL SYMPOSIUM ON ENLIGHTENING PLATFORM OF PHOTOCHROMIC TEXTILES

About the Department

The Department of Textile and Fashion Designing & Costume Design and Fashion was established in the year 2006. The scope of our department is to make our students to face the challenges in Global Apparel Industry. Every year we produce centum Result, Rank Holders and University Gold Medalists and also we often conduct workshops and industrial visits to encourage the students' skill which helps them to develop as a women entrepreneur in the competitive world.



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HERBAL FINISHING AND CHARACTERIZATION OF DEVELOPED UNDERARM PERSPIRATION ABSORBENT PADS

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ABSTRACT

Technology need to support the sustainability of ecology but the use of non biodegradable chemicals and materials is adversely affecting the ecosystem. With the busy life style and urbanization, the generation of sweat and bacteria is causing rashes and health problems to common man. The use of deodorants and perfumes and their disposals were environmental threatening; also microbes are getting resistance to conventional antimicrobial agents. As more medicinal plants were blessed with phytochemical's, which are biodegradable and eco-friendly they can be extracted for imparting eco-finishes to the fabrics, which is a safe alternative than harmful chemicals. Keeping this in view the present study is on the invention of a novel article of manufacturing an armpit perspiration absorbent pad using bamboo spun laced fabric treated with cassia auriculata flower extract. The cassia auriculata treated fabric was evaluated for its phytochemical analysis and antibacterial activity. After observing the zone of inhibition the parameters such as time, temperature and concentration for finishing was optimized and developed into an underarm pad. Then the developed underarm pad was evaluated for wear study and its microbial count was recorded. One of the principal objects of the invention is to provide an efficient inexpensive eco friendly antibacterial treated disposable and comfortable under arm perspiration absorbent pads.

Key words: Eco-finishing, Antibacterial activity, Cassia auriculata, under arm pads.

1. INTRODUCTION

The empowerment of women from housewife to a complete professional has naturally increased the "active" working hours in a day. Being a tropical country, Indian women are more prone to perspiration and odour. Women's are doing more work and they sweat a lot.

Also for few persons the secretion of the sweat will be more and they feel as shame and uncomfortable to go out with the sweat marks in their dresses. The upper garments like jackets, blouses and coats are usually close to underarms. The release of sweat from their body to textiles will create an ambient condition