

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAUM-590 010**



A PROJECT WORK ON

**“Studies on Antimicrobial and ultraviolet resistance properties of
Bamboo and Cotton fabrics”**

Submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

TEXTILE TECHNOLOGY

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ABSTRACT

Bamboo fibre is a regenerated cellulosic fiber produced from bamboo starchy pulp which is produced from bamboo stems and leaves through a process of alkaline hydrolysis and multiphase bleaching. Further chemical process produces bamboo fiber.

Fabric made from Bamboo fibre has been growing in popularity, because it has many unique properties and is more sustainable than most textile fibres. Bamboo fabric is light and strong, has excellent wicking properties, and is to some extent antibacterial. The use of bamboo fibre for clothing was a 20th century development, pioneered by several Chinese corporations.

Fabrics made from bamboo fibre are highly breathable in hot weather and also keep the wearer warmer in cold season. Many people who experience allergic reactions to other natural fibers such as wool or hemp doesn't complaint of this issue with bamboo.

The invention of Bamboo fibre is the contribution of mankind to the protection of natural rare minerals, the protection of resources, the care of the environment and the consideration of the global balance.

The current project uses 100 % Bamboo & Cotton fabrics to evaluate the unique properties like anti microbial, UV absorption & dyeing behavior and the various geometrical, physical and hand related properties of the above said fabrics.