

Dyeing with Natural Dye from *Pterocarpus indicus* Extract Using Eco-Friendly Mordants

Authors : Ploysai Ohama, Nuttawadee Hanchengchai, Thiva Saksri

Abstract : Natural dye extracted from *Pterocarpus indicus* was applied to a cotton fabric and silk yarn by dyeing processing different eco-friendly mordants. Analytical studies such as UV-VIS spectrophotometry and gravimetric analysis were performed on the extracts. The color of each dyed material was investigated in terms of the CIELAB (L*, a* and b*) and K/S values. Cotton fabric dyed without mordants had a shade of greenish-brown, while those post-mordanted with selected eco-friendly mordants such as alum, lemon juice and limewater result in a variety of brown and darker color shade of fabric.

Keywords : natural dyes, plant materials, dyeing, mordant

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