**Abstract**

Natural dyeing is a technique to dye the textile fabrics with the colors extracted from natural sources like plants, animals and minerals etc. Natural dyeing and printing have been used for centuries but with the disadvantage of being limited in colors and inferior in color fastness & durability properties. However, they are eco-friendly, biodegradable and non-carcinogenic in comparison to synthetic dyes. In this research work, the dyes were extracted from two plant sources, i.e., marigold flower and pomegranate peel and cotton knitted fabrics were dyed using these natural dyes. The same color shades were produced by using synthetic reactive dyes and their color fastness properties were compared with those of natural dyed fabrics. The results elaborate the good potential of natural dyes as substitute for synthetic dyes in terms of color fastness and mechanical properties.