



materials and 8 dyeing conditions. However, because of the restriction of spinning technique the mixed yarns are only 4 types, i.e. cotton yarn, 30% Rux, 50% Rux, and 80% Rux yarns. Finally, there are 4 x 8 treatments in this study.

Results of the preliminary experiment are shown that alkalis can not be used as dye auxiliaries in Kae lae dyeing. Therefore, results of the dyeing experiment in the next step are studied only lac dyeing and indigo dyeing.

Results of the dyeing experiment are denoted that in lac dyeing and indigo dyeing cotton yarn has more color intensity than Rux yarns. In lac dyeing, all conditions which used soda ash and caustic soda as dye auxiliaries would make the textile materials have more color intensity than the condition that used only lac dye and more color intensity than the native condition that used ash solution as a dye auxiliary. Light fastness property is classified as fairly good to good class and the conditions which used caustic soda would make the textile materials have more light fastness property than other conditions. Washing fastness of lac dyeing are very poor in all treatments. Rubbing fastness are classified as nearly fair to good class and all conditions which used soda ash and caustic soda are not different to each other.

In indigo dyeing, the three conditions that used soda ash and the condition that used 20% on fiber weight of caustic soda would make the textile materials have dark

shade and shown non-significant difference to each other. The condition that used only indigo dye and conditions that used 10 - 15% ofw.caustic soda would make textile materials have more lighter shade than the former group conditions. Light fastness of indigo dyeing are very poor in all treatments. Washing fastness property is classified as fairly good to good class and every treatment is not different to each other. Rubbing fastness property is classified as poor to good class and each condition is not difference to each other.

The results in this study are found that each natural dye has not so good in light fastness, washing fastness, and rubbing fastness property. Especially, lac dye has very poor washing fastness and indigo dye also has very poor light fastness. Therefore, for keeping textile materials that dyed with these natural dyes on prolong life, it should be avoided the inferior properties, i.e. lac dyed materials should be cleaned by dry cleaning liquid and should not be cleaned often, and indigo dyed materials should be kept indoors.