

Yarn dyeing with natural dyes extracted from plant sources

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■ **ABSTRACT** : The study was undertaken with an aim to develop the dyeing conditions of four different natural dyes which are easily available in North East India, namely, *Myrica nagi* Thumb. (Bay berry), *Garcinia xanthochymus* Hook. f. (Cochin goroka), *Artocarpus integrifolia* Linn. f. (Jack fruit) and *Eugenia jambolana* Lam. (Black plum) on wool yarn. The natural mordant used in the research work is aluminium potassium sulphate ($AlK(SO_4)_2$) for better fixation of the dyes. The dyes are extracted by alkaline method and the extraction time is optimized from the optical density values. The pre-mordanting method is used for mordanting the yarn. Shades of different colours, ranging from yellow to brown are obtained from the dyes on wool yarn. Fastness grades rated for all the samples are found to be good irrespective of all the dyes. The dyes are found to be an ideal source which could be adopted at commercial level.

■ **KEY WORDS**: Natural dye, Dyeing, Mordant, Eco friendly

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