

## The Application of Rhizophora Wood to Design a Walking Stick for Elderly

**Authors :** Noppadon Sangwalpetch

**Abstract :** The objective of this research is to use Rhizophora wood to design a walking stick for elderly by applying its properties on strength and toughness. The research was conducted by studying the behavior and the type of walking sticks used by 70 elderly aged between 60-80 years in Pragnamdaeng Sub-District, Ampawa District, Samudsongkram Province. Questionnaires were used to collect data which were calculated to find percentage, mean, and standard deviation. The results are as follows: 1) most elderly use walking sticks due to the Osteoarthritis of the knees. 2) Most elderly need to use walking sticks because the walking sticks help to balance their positioning and prevent from stumble. 3) Most elderly agree that Rhizophora wood is suitable to make a walking stick because of its strength and toughness. In addition, it is a local plant which is available and cheap. 4) The design of the walking stick should be fine and practical with comfortable handle and the tip of the stick must not be slippery.

**Keywords :** rhizophora wood, the design of a walking stick, elderly, visual arts

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