

## **EXPERIMENTAL ANALYSIS OF COCONUT COIR FIBER REINFORCED COMPOSITE MATERIAL**

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The main objective of this work is to assess the mechanical properties and fracture analysis of coir fiber composite. Fiber reinforced (FRPs) have replaced conventional engineering materials in many area, especially in the field of automobiles and household application. With the increasing demand, various modifications are being incorporated in the conventional FRPs for specific applications in order to reduce costs and achieve the quality standards. The present research endeavors an attempt to study the effect of natural fillers on the mechanical characteristics of FRPs. The specimen was fabricated with coir fiber at various dimensions of coir fiber length, thickness. From the final results it was concluded that the coconut powder composite provides good Compressive, Bending, Impact, tensile and Hardness. Isophthalic resin has been used for advance technology to use high strength easily available. Then we use catalysts to react MEKP it can reduce time and quick reaction .In order to efficiently use the fibers and understand the composite properties, mechanical properties of coir fiber are investigated and tested in this study. The various ratio are used and fabricated specimen and the testing includes the mechanical properties and selected better samples.