

## ABSTRACT

# DEVELOPMENT OF E GLASS AND CHICKEN FEATHER COMPOSITE

Now-a-days, the natural fibres from renewable natural resources offer the potential to act as a reinforcing material for polymer composites alternative to the use of glass, carbon and other man-made fibres. A hybrid composite is a combination of two or more different types of fibre in which one type of fibre balance the deficiency of another fibre.

Composites of various compositions with three different fibre 0, 5, 10 , 15 percentages are fabricated using simple hand lay-up technique. It has been observed that there is a significant effect of fibre loading and percentage on the performance of composites. The developed composites undergo different kinds of tests. The result shows composites having good strength and stiffness compared to natural hybrid composites.

**Keywords: Renewable, Mechanical Properties, filler material ratios.**