

## MECHANICAL BEHAVIOUR OF GLASS FIBER REINFORCED EPOXY COMPOSITE MATERIAL

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### **ABSTRACT**

*The main objective of this work is to study the three samples of glass fibre reinforced with three different ratio of epoxy resin. In this study the different weight percentage of given material properties are identified by using destructive such as tensile test, impact test, hardness measurement and vibration analysis (non-destructive testing method). The main aim of this study to predict the quality of the materials (weight percentage of suitable given materials) using the above test methods. Testing this sample through tensile, hardness, impact, vibration and comparing it by the testing result to find the best among these three-composite sandwiches which are used to some applications.*

**KEYWORDS:** *Composite, Glass Fibre, Epoxy Resin, Destructive Testing & Vibration*

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