

**UNIVERSITI TEKNOLOGI MARA**

**DESIGN AND FABRICATE TOYS  
BOX FOR SMALL TOYS OR LEGO**

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## **ABSTRACT**

This project is an example of toy box design and construction for little toys such as Legos. The purpose of this project is to investigate and design a toy box that is excellent for storing small toys or Lego. In addition, I will 3D print the toy box and conduct research on the materials that will be used in this project. In addition, the size of toy boxes that are suitable for public usage is investigated in this study. The study also investigates 3D printing methods like stereolithography, digital light processing (DLP), laser sintering / laser melting, and others. In addition, this research will focus on the materials utilised to create the materials that will be used. Nylon, ABS, PLA, lay wood, metals, ceramics, paper, biomaterials, and others are some examples of materials that can be used in 3D printing. The research also investigates existing toy box designs.

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