

PROTOTYPE DESIGN COLLECTION

SERIES 1



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CHAPTER 81

Design and Fabricate of Solar Box Cooker

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PROJECT DESCRIPTION

Mechanical engineering students in semester 5 were tasked with developing a product that helps in solving a common problem. The fundamental concept is to solve a widespread problem, which is using clean, renewable, and readily available solar energy as fuel. The goal of this project is to design and build a working solar cooker and apply thermal energy storage. The proposal outlines the primary phases in manufacturing a product, which include doing research, conducting a literature study, creating a concept design to be visualised in 3D rendering software, and fabricating the product. As a consequence of the completion of this proposal, the ability to build a good proposal for manufacturing an engineering design should improve, which will help in the future professional environment of the engineering world.

Keywords: *Solar box cooker*

PROTOTYPE



DESIGN PARAMETER

