



# TEMPERATURE CONTROLLED AUTOMATED CHARCOAL STOVE

## TEAM MEMBERS

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**TEAM**  
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## **PROBLEM**

Gas is going to rise dramatically as a result of the world's upcoming energy crisis. Higher energy prices have contributed to extremely high inflation, pushing families into poverty. As a result, people are looking for alternative energy sources for daily activities such as cooking. When it comes to other energy sources, there are some extremely overpriced electric cookers on the marketplace currently, as well as some cost-effective choices like charcoal stoves, but their functionality is very low.

## **GOAL**

The primary objective of this project is to design and develop a cost-effective charcoal stove that provides excellent functionality, including features commonly found in electric cookers that assure efficient and precise cooking control. This innovative feature will enable households to cook with charcoal more safely and with greater ease, promoting the use of sustainable energy sources.

## **SOLUTION**

The proposed design will incorporate features such as a timer and multiple cooking modes to provide users with a range of cooking options. Additionally, our innovative design will also include an automated fan system that regulates the temperature by controlling the oxygen supply to the charcoal, ensuring efficient and precise control of the cooking process. The fan will be powered by a rechargeable battery, allowing users to use it even during power cuts. In addition to the automated fan system, we will include an indicator that indicates whether there are any issues with the burning process or if there is insufficient charcoal. The stove's design will also include an ashtray for easy cleaning and maintenance.

Our stove's unique features, such as the automated fan system, timer, and multiple cooking modes, will provide users with a range of cooking options, making it versatile and functional. Moreover, the use of charcoal as a fuel source is cost-effective and readily available in many parts of the world, making it a practical solution for low-income households.

## **PROPOSED BUDGET**

According to our assumptions the product will cost around  
Rs. 6000 – 7000