Department : Mechanical

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Group No: 11

Guided By

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## SMT. S. R. PATEL ENGINEERING COLLEGE, UNJHA

## Project Title DOMESTIC FLOUR MILL

## Abstract:

The research presents improved design of a domestic flour milling machine. It is a machine used for the milling of flour (dough) to a higher degree for food production without damaging the nutrients. In the construction of the design it is expected to use indigenous technology and to increase efficiency, minimize cost and maximize profit. The machine was designed to use the main drive shaft as means of speed reduction. It is very cheap to maintain. Automation is one of the emerging technologies in the field of any industrial processes. This paper emphasis on the automation of a domestic flour mill using fuzzy logic. As fuzzy logic has various potential functions, this can be utilized in flour mill automation. In this paper an idea is proposed for the Range of grinding processes it helps to operate in optimal speed and saving electricity. Fuzzy Logic Controller (FLC) improves the performance compared to a conventional PID controller as well. In this paper a comparison of PID and Fuzzy Logic Control was also performed and it is proved that FLC has better response and less overshoot. Also, it is free from oscillations present in transient period. The simulation was carried over by using MATLAB/SIMULINK. **Prepared By:** 

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