



PROJECT REPORT ON
“FARMER FRIENDLY MAIZE MOISTURE
LEVEL TESTING MACHINE”

Submitted in partial fulfillment of the requirements for the award of degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS & COMMUNICATION ENGINEERING

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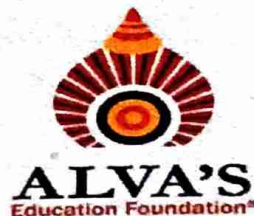
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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

A+ Accredited by NAAC & NBA (ECE & CSE)

MOODBIDRI – 574 225.

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CERTIFICATE


Certified that the project work entitled "FARMER FRIENDLY MAIZE MOISTURE LEVEL TESTING MACHINE" is a bona fide work carried out by


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in partial fulfillment for the award of **BACHELOR OF ENGINEERING** in **ELECTRONICS & COMMUNICATION ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2023–2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.




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ABSTRACT

An innovative method for detecting maize moisture levels using capacitive sensors, specifically designed to meet the demands of frame-friendly applications. Capacitive sensing, known for its simplicity, affordability, and non-destructive nature, emerges as an ideal solution for integrating moisture detection into agricultural frameworks. The system addresses the pressing need for precise and efficient moisture measurement in maize grains. Importantly, the capacitive sensor design minimizes any potential interference with the maize grains, ensuring their integrity remains intact during detection processes. Real-time monitoring capabilities are enabled, eliminating the need for manual intervention and allowing for continuous surveillance of moisture levels. Such monitoring proves invaluable for timely decision-making regarding harvesting and storage practices. Additionally, the system's compact size and low power consumption render it highly adaptable to various agricultural environments. Leveraging advanced signal processing techniques further enhances the accuracy and reliability of moisture measurements. Moreover, the system architecture facilitates seamless integration with existing farm management systems, paving the way for comprehensive data analysis and informed agricultural practices. Experimental results substantiate the efficiency of the capacitive sensor-based approach in delivering precise and actionable insights into maize moisture levels.