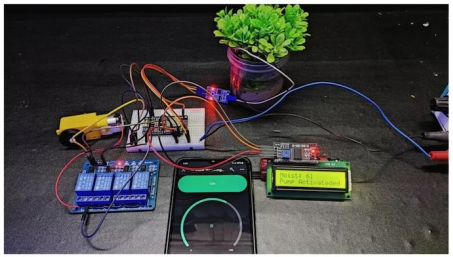
Sarvajanik College of Engineering and Technology

PLANT WATERING SYSTEM

with the Nodemcu ESP8266 Board and Blynk

ABSTRACT

- Opening statement to a smart plant watering system leveraging NodeMCU ESP8266 and Blynk.
- NodeMCU highlighted for its compact design and robust Wi-Fi capabilities.
- Utilization of the latest Blynk update for enhanced features and improved compatibility.
- Implementation of real-time smartphone notifications for immediate plant care updates.
- Blynk app serves as a user interface for remote monitoring of soil moisture levels.
- User-friendly control through the Blynk app, enabling watering with a simple tap.
- Integration of technology into horticulture, representing a leap in smart gardening.
- Significance of providing users with an efficient way to care for their plants.



INTRODUCTION

- Introduction to smart plant watering system.
- Utilizes NodeMCU ESP8266 and Blynk for automation.
- NodeMCU known for compact design, strong Wi-Fi capabilities.
- Blynk app offers enhanced features for user interaction.
- Focus on real-time monitoring and notification.
- Enables remote control of watering process.
- Represents a significant advancement in smart gardening.
- Provides an efficient and user-friendly solution for plant care.

BENEFITS

- Remote monitoring for plant hydration levels.
- Efficient water usage through customized schedules.
- Mobile control and easy adjustment of watering settings.
- Instant notifications for timely action.
- Energy-efficient Nodemcu ESP8266 for sustainability.
- Improved Blynk interface for user-friendly experience.
- Data logging for analyzing moisture trends.
- Integration potential for expanding system features.
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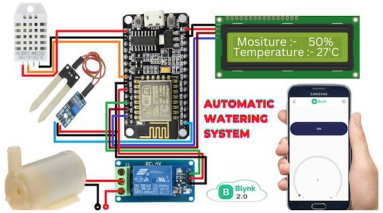
FUNCTIONALITY

- Continuous monitoring of plant hydration levels.
- Customizable water management schedules for specific plant requirements.
- Remote access and control through the Blynk update.
- Optimal water distribution to prevent overwatering or underwatering.
- Immediate notifications for timely intervention.
- Energy-efficient operation with the Nodemcu ESP8266 board.
- Improved user experience with the updated Blynk interface.
- Data logging for analyzing historical watering patterns and refining care strategies.



CONCLUSION

- Holistic plant care solution.
- Real-time monitoring for effective hydration.
- Customizable watering schedules.
- Remote control capabilities for convenience.
- Optimal resource efficiency.
- Energy-efficient operation with ESP8266.
- Improved user experience through Blynk.
- Valuable insights from data logging.

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