



Awareness Program Report

Date: 13th September 2023

Time: 2.45 P.M.

Activity: ~~Online~~ Webinar

Title: "Awareness Program of Project Based Learning"

Resource Person: Prof. S. A. Kale

Beneficiaries : Students

The Awareness Program on Program Based Learning is organized for students on 13/09/2023. In this, the Outcomes-Based Education, process and guidelines is to be discussed for smooth implementation of Project Based Learning system. The purpose of this program is to know the basics of PBL. This session got overwhelming response by the students. The program was grand success due to untiring efforts of teaching, non teaching staffs of department of EE.



Prof. Rahul Joge

PBL Coordinator, EE

Prof. S. A. Kale

PBL Coordinator JIT & HOD, EE

Head of Department
Department of Electrical Engineering
Jhulelal Institute of Technology



DTE Code: IN4139

Samridhi Sarwajanik Charitable Trust's JHULELAL INSTITUTE OF TECHNOLOGY

An Autonomous Institute affiliated to RTM Nagpur University
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Vision: To develop Professional Electrical Engineer with advance technical knowledge
for contribution to industry and society with ethical standards.



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Name of Activity: **Seminar on "Awareness on PBL"**

Date of Activity: **13th September 2023**

Targeted Audience: **Third Semester students**

No. of Participants: **25**

Resource Person (If any): **Mr. Rahul Joge**, PBL Coordinator, EE, JIT, Nagpur

Mr. Rahul Joge, delivered the Seminar on **Awareness on PBL** to III Semester Students of the Electrical Engineering Department on **13th September 2023**. In this, the Outcomes-Based Education, process and guidelines is to be discussed for smooth implementation of Project Based Learning system. The purpose of this program is to know the basics of PBL with respect to NEP 2020. He also demonstrated the PBL projects done by previous students and described the category of projects. This session got overwhelming response by the students.



Prof. Rahul Joge
Coordinator, EE

Prof. S. A. Kale
HOD, EE

Head of Department
Department of Electrical Engineering
Institute of Technology



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LEVEL MANAGER INTELLIGENT AUTOMATIC WATER LEVEL CONTROLLER



JHULELAL INSTITUTE OF TECHNOLOGY
NAGPUR

Submitted by

Shrawani bavankar Aditya Tadas
Shruti puri Ashish Chauhan
Utkarsha bokade Aniket Jadhav

Under the guidance of

Prof. Piyush Bahad
(Academic year 2023-24)



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Project tital: LEVEL MANAGER INTELLIGENT AUTOMATIC WATER LEVEL CONTROLLER

Instrument used: *Bore wall, Ac to DC converter, electrode, transistor relay , voltage regulator*

1.INTRODUCTION:

An automatic water level controller is an electronic device that controls the level of water in a tank. It consists of a sensor that detects the water level in the tank and a control unit that regulates the flow of water into the tank. water level controller circuits make use to work pump motor is of using relay fWater level controller does help to control the level of water automatically by using sense probe/circuit of the tank. This system not only monitors the water level of the tank, it switches ON the motor automatically whenever overhead tank is empty. The motor is switched OFF when the required level in the overhead tank is reached along with electrode indications. Pump motor is not started whenever water level is below the pre set threshold. Using this system we can avoid the overflow and wastage of the water

ADVANTAGES:

POWER SAVER

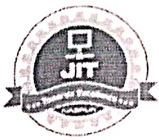
Living in an age where we need to be more conscious of the energy that we use, a water level controller is ideal at saving power. Normally, regulating water levels can consume electricity and wastewater. However, with automatic controllers, the electricity usage is limited as well as less water needed to regulate supply.

2. MONEY SAVER

A water level controller helps save money by limiting the waste of water and electricity. These devices accurately regulate how much energy is used to protect against any unnecessary water/electricity usage. Over time, the money saved is quite substantial.

3. AUTOMATIC

Another notable advantage with these devices is that they regulate on their own. Eliminating manual operations with a timer switch, the frustrations of manual monitoring water tanks are minimized. Water levels are maintained at the appropriate levels thanks to the automatic operations of these devices.



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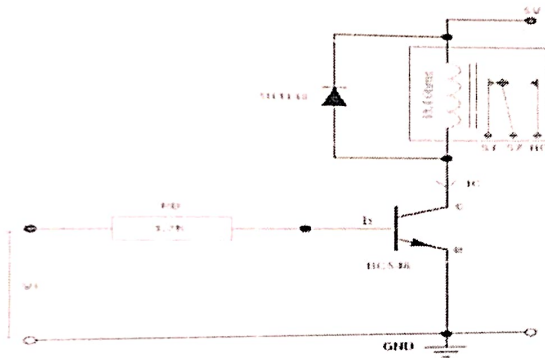


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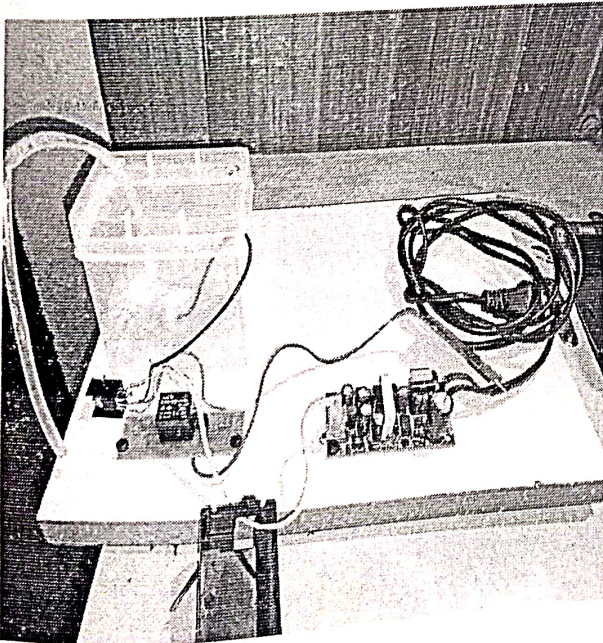
4. WATER MAXIMIZATION

On average, water pumps are used more during midday. A water level controller can maximize the water usage provided during midday while automatically lessening the water usage at night. This results in an appropriate level of water at all times being maintained, while providing you with the maximum use of your water at the appropriate times.

PROJECT OVERVIEW:



PROJECT OVERVIEW:



CONCLUSION:



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This project has achieved the main objectives. Moreover, this project involved designing and development of automatic water level control system had exposed to the better way of software and hardware architecture that blends together for the interfacing purposes. The system employs the use of advance sensing technology to detect the waterlevel.

- This system is very beneficial in rural as well as urban areas.
- It helps in the efficient utilization of available water sources.
- If used on a large scale, it can provide a major contribution in the conservation of water for us and the future generations.

REFERENCE :

- [1] S. M. Khaled Reza, Shah Ahsanuzzaman Md. Tariq, S.M. Mohsin Reza, "Microcontroller Based Automated Water Level Sensing and Controlling: Design and Implementation Issue", 0, San Francisco, USA
- [2] Ria Sood, Manjit Kaur, Hemant Lenka , " DESIGN AND DEVELOPMENT OF AUTOMATIC WATER FLOWMETER", Mohali, India
- [3] PAXAJ SHUKLA, SHAISHAV SHAH, VIDITA TILVA," WATER LEVEL CONTROL WITH SPOKEN MESSAGE", Ahmedabad, Gujarat, India.
- [4] Neena Mani , Sudheesh T.P , Vinu Joseph ,Titto V.D , Shamnas P.S," Design and Implementation of a Fully Automated Water Level Indicator", Kothamangalam,

RESULT :

Water level controllers that automatically adjust the water level save energy. They do it by automatically turning off the motor when the tank is full and when there is no water flow to the tank. This means that less water and energy are utilized to control a water supply.

P. Behad
(Guide)
