Bansilal Ramnath Agarwal Charitable Trust’s

Vishwakarma Institute of Information Technology

*(Department of Electronics & Telecommunication)*



**Group No.:- B2**

A Final Year Project Synopsis Project entitled

“PreciFarm - Integrated wired and wireless IOT solution for Precision Agriculture”

(SPONSORED BY: Infiniti Systems)

(Domain: Embedded Electronics and IoT)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **Submitted By:** | |  |
| **Roll No.** | **Division** | **Name of Student** | **E-mail** | **Contact Number** |
| 412043 | B | Anil Rajpurohit | anil.rajpurohit@viit.ac.in | 9145614631 |
| 412061 | B | Arpit Shrivastava | arpit.shrivastava@viit.ac.in | 7020818025 |
| 412068 | B | Vaishnavi Patil | vaishnavi.patil@viit.ac.in | 9011037616 |

BE E&TC

*Of Savitribai Phule Pune University (Formerly University of Pune)*

*Under supervision of*

**PROF. GAJANAN H. CHAVAN**

# Year 2019 – 2020

**INDEX**

|  |  |  |
| --- | --- | --- |
| **Sr.**  **No.** | **Contents** | **Page No.** |
| **1** | **Introduction** |  |
| **2** | **Literature Survey** |  |
| **3** | **Objectives** |  |
| **4** | **Motivation** |  |
| **5** | **Block Diagram** |  |
| **6** | **Methodology** |  |
| **7** | **Hardware and Software requirement** |  |
| **8** | **Budget** |  |
| **9** | **Applications** |  |
| **10** | **Implementation plan** |  |
|  | **References** |  |

1. **Introduction**
2. **Literature Survey**

In farming maximum production requires certain parameters to be precise and some of them are as follows:

1. Soil moisture
2. Soil temperature
3. Air moisture
4. Air temperature
5. UV and light

* Considering other factors of farming we know that wastage is something which comes into highlight not only water but also fertilizers.
* Covering the range and maintaining the precision are two factors which need to go hand in hand.

## 3. Objectives

* To precisely monitor the parameters and build a robust interface in order to increase the overall efficiency of agriculture.
* Automation of the overall process along with increasing the efficiency, in order to increase the yield.
* To commercialize the project into a product for future development in the agriculture industry.

1. **Motivation**

* Agriculture in today’s world holds the utmost importance and working towards its precision is our duty.
* This is a small attempt by us where we have applied our engineering knowledge practically for a better green life tomorrow and a happier farming today.

1. **Block Diagram**
2. **Methodology**

## 7. Hardware and Software Requirement

**8. Budget:**

**9. Applications**

## 10. Implementation Plan

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Work Plan** | **July 2017** | **Aug 2017** | **Sept 2017** | **Oct 2017** | **Nov 2017** | **Dec 2017** | **Jan 2018** | **Feb 2017** | **Mar 2017** | **Apr 2017** |
| 1. |  |  |  |  |  |  |  |  |  |  |
| 2. |  |  |  |  |  |  |  |  |  |  |
| -- |  |  |  |  |  |  |  |  |  |  |

***References***

**Name and Signature of Guide**