

## IDEATION

### TOP THREE IDEAS

727819TUEC212	SANKAMITHRA SU-TM
727819TUEC232	SOWMIYA K-TM
727819TUEC241	SWEDHA D-TL
727819TUEC248	VIJAYA DHARSHINI R-TM

**TOP 1st - TOPIC NAME:** Post Harvest Intelligent System For Curing And Storage Of Onions.

**DESCRIPTION:** To incorporate IoT technology in traditional method of onion curing and storage and update the status to the farmers regularly.To detect decay of onions at an early stage and enable farmers to take measures apriori to arrest spreading of the decay.

**TOP 2nd - TOPIC NAME:** Weather Forecasting Using IOT

**DESCRIPTION :** Farmers employ satellite weather forecasts to decide when it is appropriate to plant or harvest in the course of the season. Weather stations with smart sensors can collect data and send valuable information to a farmer.

**TOP 3rd - TOPIC NAME:** Implementation of IoT based smart crop protection and irrigation system

**DESCRIPTION:** This project yields a monitoring procedure for farm safety against animal attacks and climate change conditions. IoT advances are frequently used in smart farming to emphasize the standard of agriculture[6]. It contains types of sensors, controllers.

## SWEDHA D

**1. TOPIC NAME:** Fertilizer Management Using IOT

**DESCRIPTION:** When fertilizer gets too low, sensors notify farmers so they can use a crop-yield map to **determine which areas need more fertilizer**. They can also track how much fertilizer has been used by each plot or farm throughout the season. This reduces costs and keeps runoff to a minimum, reducing environmental damage.

**2. TOPIC NAME:** Weather Forecasting Using IOT

**DESCRIPTION:** Farmers employ satellite weather forecasts to decide when it is appropriate to plant or harvest in the course of the season. Weather stations with smart sensors can collect data and send valuable information to a farmer.

**3.TOPIC NAME:** Post Harvest Intelligent System For Curing And Storage Of Onions.

**DESCRIPTION:** To incorporate IoT technology in traditional method of onion curing and storage and update the status to the farmers regularly. To detect decay of onions at an early stage and enable farmers to take measures apriori to arrest spreading of the decay.

## SANKAMITRA SU

**1. TOPIC NAME:** Implementation of IoT based smart crop protection and irrigation system

**DESCRIPTION:** This project yields a monitoring procedure for farm safety against animal attacks and climate change conditions. IoT advances are frequently used in smart farming to

emphasize the standard of agriculture[6]. It contains types of sensors, controllers.

**2. TOPIC NAME:** Irrigation Management Using IOT

**DESCRIPTION:** Irrigation management uses sensors to detect when and how much water is needed by individual plants. This saves water and also reduces weeds and runoff.

**3. TOPIC NAME:** Internet of Things-Based Onion Preservation System

**DESCRIPTION:** The quality of onion is maintained using thermoelectric cooling system and monitored using IOT. The monitored data is send to the user using Wi-Fi module.

**SOWMIYA K**

**1. TOPIC NAME:** Livestock Monitoring Using IOT

**DESCRIPTION:** Livestock monitoring uses sensors and RFID tags to track the location and health of livestock. This information aids ranchers in determining the condition of their livestock.

**2. TOPIC NAME:** Precision Agriculture Using IOT

**DESCRIPTION:** Precision agriculture is a farming management approach that uses digital technologies to enable farmers to make **better decisions** about where, when, and how much to fertilize, irrigate, and spray pesticides. By using sensors to collect data on weather, soil moisture, crop health, and real-time locational asset tracking (RTLAT), farmers can make more informed decisions about how to care for their crops.

**3. TOPIC NAME:** Post harvesting Onion Storage Methodology using IOT

**DESCRIPTION:** In Proposed system we are analyzing the design and implement the Proposed post harvest onion storage methodology to reduce its degradation.

**VIJAYA DHARSHINI R**

**1.TOPIC NAME:** Crop monitoring and smart farming using IoT

**DESCRIPTION :** To digitalize farming and agricultural activities so that the farmers can check on the requirements of the crops and accurately predict their growth. The implementation of project largely depends upon the awareness among farmers, which, we believe will be easily created due to its numerous advantages.

**2.TOPIC NAME:** Smart Pest Control Using IOT

**DESCRIPTION:** Sensors detect the presence of pests and then dispense pesticides as required to protect crops. This helps reduce pesticide usage and can be used with smart irrigation management for targeted spraying only where it is needed..

**3.TOPIC NAME:** Post Harvest Intelligent System For Curing And Storage Of Onions.

**DESCRIPTION:** To incorporate IoT technology in traditional method of onion curing and storage and update the status to the farmers regularly.To detect decay of onions at an early stage and enable farmers to take measures apriori to arrest spreading of the decay.