**5-Day Online Training on Smart Farming and Precision Agriculture**

Kenya School of TVET (KSTVET)

Course: General Agriculture

# Learning Outcomes

By the end of this training, participants should be able to:

- Understand the concept and importance of Smart Farming.

- Learn how IoT, drones, and sensors are used in precision agriculture.

- Analyze farm data for better decision-making.

- Implement automated irrigation and fertilization systems.

- Develop a basic smart farm setup plan.

# Daily Training Schedule

## Day 1: Introduction to Smart Farming

- Learning Activity: Online lecture on smart farming concepts.

- Out-of-Class Activity: Research and summarize the benefits of precision agriculture.

## Day 2: IoT and Data Analytics in Farming

- Learning Activity: Presentation on how IoT sensors collect farm data.

- Out-of-Class Activity: Identify different farm sensors and their uses.

## Day 3: GPS and Drone Applications in Agriculture

- Learning Activity: Case study on drone-assisted farming.

- Out-of-Class Activity: Create a farm layout incorporating GPS-based monitoring.

## Day 4: Automated Irrigation and Fertilization

- Learning Activity: Video demonstration of smart irrigation systems.

- Out-of-Class Activity: Design a simple automated irrigation system for a small farm.

## Day 5: Developing a Smart Farm Plan

- Learning Activity: Workshop on setting up a smart farm system.

- Out-of-Class Activity: Create and present a smart farm implementation plan.