



Virtual Reality in Agriculture:



Hydroponics



Drip Irrigation



Olive
Harvesting



Agricultural
Tractors



Beekeeping

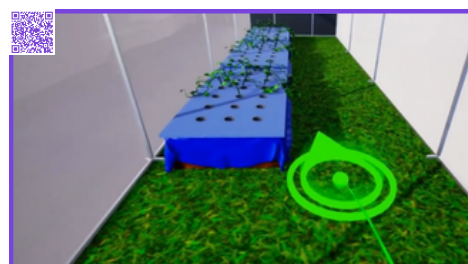


Grafting

Discover the future of agricultural education with ASFAN's Virtual Reality Agriculture Experiences, offering a fully interactive 3D environment that allows farmers, students, and technicians to learn and practice practical skills such as irrigation, harvesting, tractor operation, and beekeeping safely, efficiently, and effectively—without the need for actual fields or expensive equipment.

1. Hydroponics and Greenhouse Construction

- How to establish a complete hydroponic system capable of supporting healthy plant growth.
- Professional methods for constructing and preparing greenhouses to provide optimal environmental conditions.
- Resource-saving techniques while enhancing crop quality and productivity.



2. Drip Irrigation (2 Contents)

- Step-by-step installation of a complete drip irrigation system.
- Correct use of drip irrigation tools to achieve optimal water distribution.
- How to avoid common mistakes in real agricultural sites, ensuring efficiency and resource savings.



3. Olive Harvesting with Agricultural Robot

- How robotic harvesting systems work for olive picking.
- Operating the devices accurately and controlling automated harvesting systems.
- Managing quality and production speed using advanced technologies, without field-related risks.



4. Agricultural Tractors (6 Contents)

- Performing the daily tractor inspection routine before operation to ensure safety.
- Using tractor linkages effectively.
- Carrying out fertilizer application procedures with accuracy and professionalism.
- Basics of tractor operator training for handling equipment.
- Driving tractors in a safe and realistic training environment.
- Operating and driving virtual reality harvesters to simulate harvesting operations.



5. Beekeeping and Honey Extraction (5 Contents)

- The bee life cycle, from larva to mature worker.
- Honey extraction using realistic tools in a virtual environment.
- Evaluating honey quality and acceptable standards for marketing.
- Applying safety procedures in honey extraction to ensure worker health.
- Identifying the different types of bees and their roles within the hive.



6. Grafting (7 Contents)

- Various techniques including Bark Grafting, Bridge Grafting, Patch Grafting, Side Grafting, T-Budding, and Whip & Tongue Grafting.
- Precise procedural steps for grafting performed in a safe, realistic simulation environment.
- Developing advanced skills to increase grafting success rates and improve the quality of cultivated plants.



Key Features and Benefits of Virtual Agriculture Experiences

- **Hands-on learning without the field:** All skills are practiced in a 3D environment without the cost of field equipment.
- **Error- and risk-free training:** Practice both correct and incorrect methods with no real-world consequences.
- **Resource and cost efficiency:** Reduce the need for water, equipment, and travel for on-site training.
- **Accessible anytime, anywhere:** Suitable for classrooms, training centers, and remote areas.

We offer a package of Virtual Reality Agriculture Experiences that help farmers, students, and institutions build practical skills safely and effectively—your gateway to advanced, field-ready agriculture.



Check it on our website