



Contents

- Horticulture and Artificial Intelligence
- IHT Education and Technology Demonstrations
- Upcoming Training Programmes

HORTICULTURE AND ARTIFICIAL INTELLIGENCE

Artificial intelligence is seen as opportunity in difficult situations/problems particularly that cannot be solved well by humans as well as traditional computing structures. Artificial intelligence is related to build machines that can think, behave, and understand the way humans do. From effective planting, watering and harvesting to testing new systems, machines can often be created to be more efficient than people for the problems related to the climate change, population growth, land degradation, low irrigation efficiency, biotic and abiotic stresses and food security due to large post-harvest losses.

Application of artificial intelligence in horticultural sector are-

- Artificial intelligence provides more efficient ways to produce, harvest and sell essential crops.
- It implementation emphasis on checking defective crops and improving the potential for healthy crop production.
- The growth in artificial intelligence technology has strengthened agro-based businesses to run more efficiently.
- Used in applications such as automated machine adjustments for weather forecasting and disease or pest identification.
- Artificial intelligence can improve crop management practices.
- Artificial intelligence has the potential to solve the challenges farmers face such as climate variation, an infestation of pests and weeds that reduces yields.
- It wouldn't eliminate jobs of human farmers rather it will improve their processes.



IHT EDUCATION AND TECHNOLOGY DEMONSTRATION

Outside State Exposure Visit for Farmers

Institute of Horticulture Technology organized an outside state exposure visit cum training programs for the farmers of Khagariya, Bihar to Jalgaon Maharashtra. Farmers visited Jalgaon, Maharashtra from 26th May to 3rd June 2022. The farmers visited various industrial farms, institutions and progressive farmers' fields for upgrading their knowledge with respect of the following:

- Hydroponics and aeroponic farming
- Fruits and vegetables nursery production
- Fruits and vegetables cultivation technology
- Tissue culture production and proper hardening technology for Banana.
- Fruit processing technologies
- Various latest farm machinery used for horticulture and micro irrigation systems

It was good exposure for the farmers as they could see the improvements in horticultural sector and farmer's friendly modern technologies for the betterment of horticultural quality crop production.



Glimpses of exposure visit of Bihar farmers to Jalgaon Maharashtra for demonstrating innovative horticulture production technologies

Entrepreneurial Capacity Building Trainings

Protected Cultivation: One-week training programs for entrepreneurs' on "Protected Cultivation" was also conducted in this month. Participants were provided hands on trainings in the protected cultivation for vegetables. The major components of the course were soil health management, soil sterilization, solarization, nursery production, soil and soilless bed preparation, amendments, pH, EC correction, mulching, nutrient management, integrated pest management, post-harvest handling, storage in zero energy chambers.

Commercial Hydroponics:

IHT organized 2 weeks training programme (50% online and 50% offline) on “Commercial Hydroponics” for entrepreneurs. The participants got good exposure about water quality analysis for open & closed loop, plant nutrition management, nursery production, seeds identification, climate control in greenhouse, cladding materials, training-pruning, physiological disorders of hydroponics crops and greenhouse pest management.



Hands on Training on Commercial Hydroponics

Internship Programme

Institute successfully conducted 45 days' internship training programme for B.Sc. Agri. students of Noida International University on “Modern Horticulture Production Technology” in June 2022. The students participated in hands on trainings for various technological interventions necessary for quality production of horticultural crops like vegetables, fruits and flowers. The students appreciated the knowledge based interactive lectures and hands on trainings especially in Protected Cultivation.



Few glimpse of internship programme on “Modern Horticulture Production Technology”

**e- Training Programmes:**

IHT also conducted e-training programmes on:

- **Hydroponics:** Institute successfully organized 3 days online training programs on “Hydroponics” for entrepreneurs.
- **Mushroom Production Technology:** IHT conducted 3 days training programme on “Mushroom Production Technology”.

Upcoming Training Programmes:

S. No.	Title	Duration	Mode of Training
1.	Landscape Horticulture	2 Week	Online cum Offline
2.	Hi-Tech Horticulture Nursery Production Technology	2 Week	Offline
3.	Microgreens Production	3 Days	Offline
4.	Online Basic Hydroponic	3 Days	Online
5.	Ornamental Nursery Production	3 Days	Online
6.	Mushroom Production	3 Days	Online
7.	Protected Cultivation of Vegetables Crops	1 Week	Online
8.	Protected Cultivation of Vegetables Crops	1 Week	Offline
9.	Commercial Hydroponics	2 Week	Online cum Offline
10.	Greenhouse Construction Design and Management	5 Days	Offline

**Customized courses are also offered on demand.*

For more details, contact: Mr. Anish Ranjan, Relationship Manager, Mobile +91-8860082566



ISO 9001 : 2008

इंस्टीट्यूट ऑफ हॉर्टीकल्चर टेक्नोलॉजी
Institute of Horticulture Technology

Main Campus: 42A, Knowledge Park III, Greater Noida - 201310, Uttar Pradesh
North East Campus: Mandira, Kamrup - 781127, Assam
Mobile: 8860621160, website: www.iht.edu.in, Email: enquiry@iht.edu.in, training@iht.edu.in