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VERTICAL HYDROPONIC FARMING

Population is continuously increasing, and the land is decreasing day by day. It is estimated that by the year 2050, the world's population will increase by 3 billion people and close to 80% will live in urban areas. Vertical farms have the potential to feed the world's population by creating additional farmland. The new concept of vertical farming can help farmers in doubling their incomes in one year. Vertical farming is the production of fruits, vegetables, flowers, and medicinal plants in vertical surfaces or integration with other structures. The crops produced are likely to be pesticide-free, so it can reduce burdens on the medical facilities, thus increasing the net income of the farmers and consumers.

Vertical farming saves many natural resources as the human interference in the natural environment and biomes is reduced by practicing the farming vertically at a limited place with manipulated environmental conditions by reduced farmland, agricultural encroachment and deforestation can be avoided by vertical farming. A threat to industrial agriculture caused by phosphorous-based fertilizers and runoff and leaching losses can be avoided by vertical farming. Vertical farming can be a better tool for the growth of the nation as it combines technologies and socioeconomic practices. It allows cities to expand while remaining substantially self-sufficient in food. This would allow large urban/rural centers to grow without food constraints.



IHT EDUCATION

Internship Programme on “Modern Horticulture Production Technology”

Institute of Horticulture Technology organized training programme for the students on “Modern Horticulture Production Technology”. During training students made aware of standard operating procedures necessary for nursery production. By the adoption of S.O.P's healthy and disease free seedlings can be raised which is essential for a healthy crop production. Greenhouse development and its proper utilization attracted the participant most as this helps them to trouble shoot the problems in greenhouse management and enhance the efficiency of their vegetable production system. Hand on training was provided hands to the trainees in the protected cultivation for vegetables.

Hydroponics Trainings for Prospective Entrepreneurs

Institute successfully organized online training programs on “Hydroponics” for entrepreneurs. The participants were made aware about water quality analysis, plant nutrition management, greenhouse technology- climate control, production technologies for various crops, training and pruning, physiological disorders of hydroponics crops (due to climatic factors and nutrients imbalance), greenhouse pest management and marketing practices of hydroponic crops.



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



Exposure Visits Training Programme

Institute of Horticulture Technology organized an outside state exposure visit programs for the farmers of Bihar to Jalgaon Maharashtra. The exposure visit was organized to provide an opportunity to the farmers to interact with eminent horticulture scientists and progressive farmers to see various new technologies, practices carried in cultivation of vegetables and other horticultural crops. The farmers along with IHT expert visited to various farms, institutions and progressive farmers' fields for upgrading their knowledge.



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

TECHNOLOGY DEMONSTRATIONS – TURMERIC, ORCHID AND IPM IN MALBHOG BANANA

Turmeric: Institute of Horticulture Technology conducted training on “Turmeric Production and Crop Management under Good Agricultural Practices”. This training is a part of a project to help farmers understand good intercultural practices for Turmeric, to produce better quality.



Farmers of Assam along with IHT experts during training programme on “Turmeric Production and Crop Management under Good Agricultural Practices”

Orchid: IHT organised on field training programme on potential & prospects of dendrobium cut flower production in relationship to the present demand & supply & importance of protected structure & role of benching system for successful dendrobium cut flower production. The training was about the good intercultural operations to grow healthy and disease-free produce and demonstrate record keeping at farmer's field to better analyses the crop and market. The performance of crop was also recorded during the training. All participants rated the training programme very good.



Farmers of Goalpara, Assam along with IHT experts during training programme for successful production of dendrobium cut flower

IPM: Field demonstration of a product developed for management of Fusarium in Malbhog banana was organized by IHT in farmers' field to acquaint the farmers with the application techniques of the product. The farmers took very good interest in knowing about the product. The product will be evaluated in their fields to encourage them for adoption of the technology thereafter.



Glimpses of field demonstration of mixing and drenching of ICAR FUSICONT product in a collaborative project of AAU, Jorhat and IHT, Mandira, Assam

Upcoming Training Programmes:

S. No.	Title	Duration	Mode of Training
1.	Landscape Horticulture	2 Week	Online cum Offline
2.	Vegetables Nursery Production	3 Days	Online
3.	Online Basic Hydroponic	3 Days	Online
4.	Ornamental Nursery Production	3 Days	Offline in Campus
5.	Mushroom Production	3 Days	Online
6.	Protected Cultivation of Vegetables Crops	1 Week	Online
7.	Commercial Hydroponics	2 Week	Online cum Offline

**Customized courses are also offered on demand.*

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