**Three-Day Workshop-cum-Training Program**

 on

*‘Basic Hydroponic Growing Techniques at*

*Solar Greenhouse’*

* 

**Venue-**

Uttarakhand State Council for Science and Technology,

Department of Information & Science Technology, Government of Uttarakhand- 248007

 **Date: 03/07/2023 to 05/07/2023**

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| **Day** | **Topic** | **Task** | **Timing** |
| **Day -1** | **1** | Orientation, Introduction and brief about UCOST & WEFN training | 11:30am-12:00pm |
| **2** | Basics of Hydroponic- Importance, scope and advantages & comparison to growing in soil. | 12:00-1:30 pm |
| **3** | Basics of Different system of Hydroponics. Drip system recovery & non recovery, NFT (nutrient film technique) system, ebb & flow system – (flood and drain), Aeroponic system, deep water culture, vertical hydroponic system, Grow bag, Trough Bag | 2:00-3:30 pm |
| **4** | Basics of media used in Hydroponics. Growing mediums and its properties & material knowledge training | 3:30-4:00 pm |
| **Day -2** | **1** | Different crops we can grow in hydroponics Introduction, commercial or research cultivation of vegetables, herbs, lettuce  | 11:30am-12:30 pm |
| **2** | Basic of Nutrient Management Hydroponic nutrient solutions, preparing nutrient solutions, plant growth factors, controlling plant growth | 12:30-1:30 pm |
| **3** | Automation Fertigation Unit Training  | 2:00-2:30 pm |
| **4** | Seedling media preparation & Sowing process.  Physical Training on Mixture preparation, seedling preparation | 2:30-4:00 pm |
| **Day -3** | **1** | How to handle & maintain crop at time between sowing to transplantation.  | 11:30am-12:00 pm |
| **2** | Transplanting seedling process in NFT & Dutch Bucket. Physical Training on transplantation method | 12:00-1:30 pm |
| **3** | General of EC & Ph management. Role of pH & EC in plant growth, digital meter uses & settings **Overall Revision of 3 days training.** | 2:00-4:00 pm |