

SALWAN PUBLIC SCHOOL, MAYUR VIHAR

Academic Session: 2024-2025

Teachers Training Programme for Skill Course 'Horticulture (816)

Tagline: Cultivating Future Innovators

Date: Tuesday, 21 May 2024

Participants: Smt. Bhaskar Valli, PGT Biology, Smt. Shalini Raheja TGT Science & Smt. Trapti Gupta, TGT Science

Resource Person: Smt. Sunita Madan (Principal, SPS Tronica) & Smt. Jyotsna Nagpal (TGT Science, SPS Tronica)

On Tuesday, 15 May 2024, Smt. Sunita Madan (Principal SPS Tronica) and Smt. Jyotsna Nagpal (TGT Science, SPS Tronica) addressed the importance of horticulture in education. Horticulture, defined as the art and science of growing plants, plays a crucial role in fostering an appreciation for the environment, developing practical skills, and promoting a healthy lifestyle and sustainability.

The program highlighted the shift towards skill-based learning in horticulture education, moving away from traditional rote learning to a hands-on approach that encourages collaboration, teamwork, and the development of specific competencies.

A significant focus was on microgreens, defined as baby plants between the sprout and baby green stages, known for their high nutrient density, quick growth, and rich vitamin content (E, C, K). These young vegetable greens add flavours and are a potent source of nutrition.

The National Curriculum Framework (NCF) recommendations were discussed, emphasising the integration of work and education into the curriculum, with a strong focus on vocational education and training.

Smt. Sunita Madan presented the Class XI Horticulture curriculum, covering topics such as site selection for protected cultivation, factors affecting and practicing cultivation, potential crops, greenhouse design, and the use of various substrates in horticulture and floriculture. The program also included innovative projects like class plant adoption, the water hyacinth project, and hydroponic plantations.

Smt. Jyotsna Nagpal outlined the Class XII curriculum, focusing on floriculture in the global market, plant management practices, indoor plant production and maintenance, and employment opportunities in horticulture. She also discussed the scope and need for a skilled workforce, including roles like floriculturists and microgreen technicians.

The event concluded by highlighting the importance of assessing student learning in horticulture and exploring opportunities for teaching staff in the field.

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FACTORS WHILE PRACTICING CULTIVATION

PRE-HARVEST

- Variety
- Light
- Temperature
- Humidity
- Growing media

GROWER


- Co2 concentration
- Crop protection
- Crop management
- Mulching
- Bagging

POST-HARVEST

- Pre-cooling
- primary packing
- Grading/sorting
- Harvesting
- Storage

CONSUMER

- Cold chain
- Storage condition
- Packhouse temperature
- Mechanization




11:50 AM | One Day Teachers Train...

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SITE SELECTION

- Soil pH of 5.5 – 6.5
- Availability of quality water
- Good supply of electricity
- A ground slope for drainage
- Good road transport to near markets
- Availability of easy and cheap laborers
- Communication facilities




11:50 AM | One Day Teachers Train...

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IMPORTANCE OF HORTICULTURE IN EDUCATION

- Fosters appreciation and consciousness for the environment.
- Develop practical skills.
- Promotes healthy lifestyle.
- Promotes sustainability.



11:59 AM | One Day Teachers Train...

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