

SKILL DEVELOPMENT PROGRAM

HYDROPONIC AND AEROPONICS- THE FUTURE SUSTAINABLE FARMING

DAY-1, 24th FEBRUARY, 2025

The first day of the Skill Development Program on *Hydroponics and Aeroponics- The Future Sustainable Farming* started with lighting of the lamp and felicitation ceremony of our honourable guests, Mr. Jasmeet Kandhari, Director and Co-founder of Ponic Green, Gurugram and Ms. Shalini Sundram, Agronomist in Ponic Green, Gurugra, where they were introduced and handed over plants and beautiful Mandalas drawn by the students. The ceremony proceeded with introduction to Hydroponics and Aeroponics led by the teachers of The Botany Department and our respected speakers. In the introduction-pros and cons, preferences, methodologies, pre-requisites, government policies, plants grown, types of systems, Biological aspects, economic importance, statistics, etc. of Hydroponics and Aeroponics were discussed where an active participation of students, putting out their queries also took place. Moreover, the speakers elucidated about their company- *Ponic Greens* and different sorts of plants that they grow there with an advanced Hydroponic and Aeroponic system with a practical representation of the substrates and other

requirements they use in their cultivation. For a vivid view, students were also taken to the Hydroponic unit of the college where they could observe different systems of growing hydroponically. Holistically, the first day was an introductory session for the students to gain a conceptual idea of how Hydroponic and Aeroponic Cultivation works and the scope one can find in the future regarding the same.









DAY-2, 25th FEBRUARY, 2025

Day-2 began with a hands-on session on how to start hydroponics, grow media, substrates, type of systems, etc. Mr. Jasmeet Kandhari sir and Ms. Shalini Sundram ma'am demonstrated the process of mixing grow media, favourable conditions required to grow different types of plants in hydroponics and also, explained through a specimen about the differences in the growth of leafy vegetables through normal and hydroponic cultivation. Our honorable speakers also elucidated about day to day care of hydroponics and do's and don'ts for the same. In the second half of the session, we were joined by a new speaker- Dr. Dinesh Kumar, Principal Scientist in Division of Agronomy, ICAR-IARI. He enlightened us about Organic Farming including its productivity, safety of Organic products and how it can be revolutionizing in the agricultural sector.





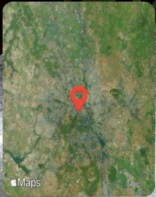
DAY-3, 27th FEBRUARY, 2025

On day three, we were honored to have Dr. Murtaza Hasan, Principal Scientist, ICAR-IARI, PUSA ministry of agriculture, as our speaker. He shared with the students vast knowledge about Smart Urban Farming by Hydroponic an Aeroponic technology. He also gave us an insight of hydroponic and aquaponic systems in ICAR-IARI. Students were also introduced to a new concept- Aquaponics, of which our respected speaker had an elaborative discussion. In the second half of the third day, Dr. Sunita George ma'am gave a lecture on Plant tissue culture versus Conventional breeding where students got to perform practicals of the same. Dr. Rekha Kathal ma'am elaborated about growing plants through Hydroponics and Aeroponics technology. The third day ended with a question round where students asked questions from the teachers.



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Guru Teg Bahadur Marg, University Area North
Campus, New Delhi, Delhi 110007, India
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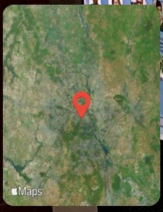


Present Status of Urban Farming Technologies

- Mostly Prevalent in the form of Greenhouse Soiless Cultivation, Hydroponics and Aeroponics
- Total area covered approx 5000 ha
- High value vegetables, nursery
- Open Loop type system
- In primitive stage lacking thrust

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 SRCC College Stadium Road, University Area
 North Campus, New Delhi, Delhi 110007, India
 Lat 28.688737, Long 77.205544
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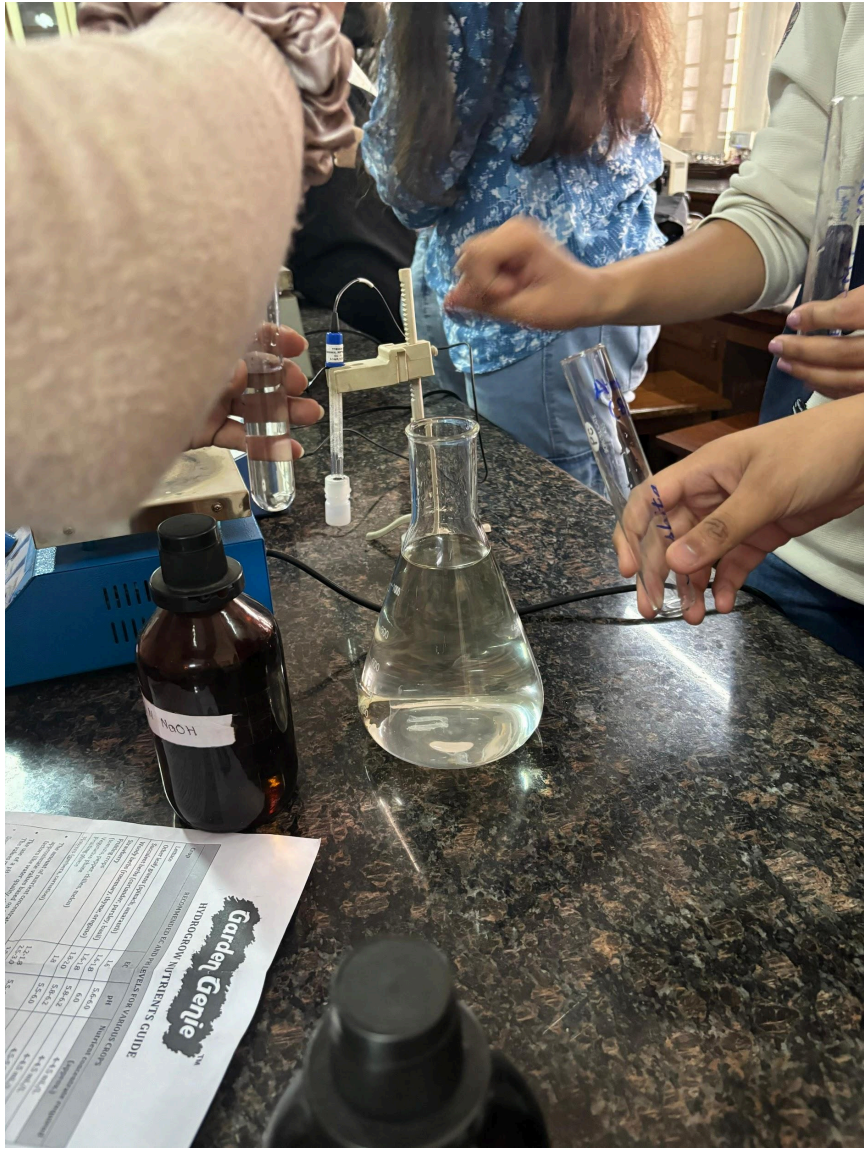
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DAY-4, 28th FEBRUARY, 2025

Dr. Remya Krishnan started the session of the fourth day by a lecture and hands-on, on certification and marketing of hydroponic products. The students were able to perform the practical where they grew Money Plant (*Epipremnum aureum*) in different growth media- one from an online source and the other from Ponics green. In the second half, Dr. Kamlesh Kumari ma'am demonstrated various methods of plant propagation and composting.











DAY-5, 1st MARCH, 2025

Day-5 began was all about students evincing their creative and innovative sides through two competitions which took place. Competition- 1 was, *Best out of waste (ReBloom: The hydroponics hackathon)* and Competition -2 was *Entrepreneurship (Agri tech disruptor pitch)*. Students showed their active participation in both of the contests. The results were announced by Mr.

Jasmeet Kandhari sir and Ms. Shalini Sundram ma'am and the winners received a certificate.





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