



Institution's Innovation Council
Sri Guru Teg Bahadur Khalsa College,
Sri Anandpur Sahib Punjab
Guest lecture on " HYDROPONICS"
Department of Agriculture



The Department of Agriculture, Sri Guru Teg Bahadur Khalsa College, Sri Anandpur Sahib, in collaboration with the Institution's Innovation Council (IIC) successfully organized a guest lecture titled "HYDROPONICS" on 23rd September 2025 under the DBT Star Status. The session was conducted by Dr. Dr. Sarwan Kumar, Technical Assistant (Department of Agronomy), PAU College of Agriculture, Ballawal Saunkhri. The session was inaugurated with a warm welcome extended by Professor Sanampreet.

The speaker started by explaining the concept of hydroponics – a method of growing plants without soil, using nutrient-rich water solutions. He highlighted its importance in addressing challenges such as soil degradation, limited arable land, and growing food demand due to the increasing global population.

Various hydroponic systems such as Nutrient Film Technique (NFT), Deep Water Culture (DWC), Ebb and Flow, and Aeroponics were discussed in detail. The speaker also explained how factors like pH, temperature, nutrient concentration, and light intensity are carefully monitored for healthy plant growth.

The advantages of hydroponics, including water efficiency, higher yield, faster plant growth, and pesticide-free production, were emphasized. The speaker also shared real-world examples and case studies of successful hydroponic farms in India and abroad.

An interactive Q&A session followed, where students enthusiastically asked questions about cost-effectiveness, scalability, and career opportunities in hydroponics.

The event was organized under the able guidance of Prof. Bhawna Thakur, head, Department of Agriculture and was coordinated by Prof. Sanampreet, Assistant Professor, Department of Agriculture. Principal Dr. Jasvir Singh appreciated the initiative, applauding the efforts of the organizing team. He encouraged students to explore emerging opportunities in agriculture, while staying rooted in cultural and spiritual values, which are essential for responsible and ethical progress.

No. of students participated: 65

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Sudents exploring innovative farming techniques in the guest lecture on Hydroponics.