

*Mastering Hydroponic Culture: Principles and Management for Sustainable Growth on 7<sup>th</sup> November 2024.*



On 7<sup>th</sup> November 2024, a **One-Day Training Workshop** Sindh Agriculture University Tandojam, in collaboration with the Sindh Water and Agriculture Transformation Project (SWAT), successfully hosted a one-day training workshop titled "Mastering Hydroponic Culture: Principles and Management for Sustainable Growth." The workshop, which saw the participation of 35 attendees, including university students, aimed at advancing knowledge and practical skills in modern agricultural techniques.

The session featured prominent experts in the field, including Senior Scientist Dr. Kaleem Ullah Shaikh and Scientific Officer Ms. Jamila Jamro. They provided in-depth lectures on the integration of hydroponic systems and vermiculture in agriculture, emphasizing their relevance in combating climate change. Participants were also trained on the application of AI-powered satellite technology for crop data monitoring and the vermiculture process using red ringlers, highlighting sustainable approaches to soil management.

The workshop included detailed demonstrations on the installation and operation of various hydroponic systems, along with an introduction to the aquaponic model, offering participants practical insights into these innovative farming methods.

The event was meticulously overseen by Prof. Dr. Tanveer Fatima Miano, Director of the Office of Research, Innovation, and Commercialization (ORIC) at Sindh Agriculture University, and Mr. Syed Hassan Shah Rashidi, Focal Person for the Research Component of the SWAT Project.

In her closing remarks, Dr. Tanveer Fatima Miano emphasized the transformative potential of hydroponic technology in revolutionizing agricultural practices, particularly in light of environmental challenges. "Our objective is to introduce advanced technologies and sustainable practices that will contribute to the long-term sustainability of agriculture in Sindh," she stated.

At the conclusion of the workshop, certificates were awarded to the participants, who expressed their eagerness to implement the new skills and technologies they had acquired in their agricultural practices.