



SOUTH EAST ASIAN EDUCATION TRUST[®]

S.E.A. COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by All India Council for Technical Education (AICTE), New Delhi
Affiliated to Visvesvaraya Technological University (VTU), Belagavi, Accredited B++ by NAAC)

Krishimela-2024



S.E.A COLLEGE OF ENGINEERING & TECHNOLOGY

AFFILIATED TO VISVESVARAYA TECHNOLOGICAL UNIVERSITY & APPROVED BY ALL INDIA COUNCIL OF TECHNICAL EDUCATION (AICTE)



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Sri A. Krishnappaji
Founder Chairman
S.E.A Group of Institutions

KRUSHIMELA

In Association with IQAC, IIC and IEEE



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Visit to Krishi Mela-2024, organized by the University of Agricultural Sciences, opened on Thursday at the Gandhi Krishi Vignan Kendra (GKVK) campus. This will remain open till November 17. The expo showcases the newest agricultural products and technologies and highlights the expanding role of technology in farming.

- Demonstrations of integrated farming and agricultural machinery
- 650 stalls showcasing innovations and technologies
- A seed mela for farmers to get quality seeds at subsidized rates
- Climate smart digital agriculture technologies
- Over 140 awards for those who have achieved significant strides in agriculture
- Driverless tractors and coconut-plucking drones

- **Driverless Tractors and Drones Highlight the Event**

One of the main attractions at the mela was a driverless tractor equipped with an automated boom sprayer. Other impressive innovations included a coconut harvesting drone as well as the Krishi Bot. One can control this bot remotely for tasks such as ploughing, sowing groundnuts, fertilization, and even crop health assessment through a multispectral drone.

Other digital farming technologies, such as the NSP seed portal, fertilizer calculator app, and the Cryagen Agri app, were also showcased. The mela includes tools for precision farming, such as the soil-testing kit Arka Shine, precision irrigation systems, and other machines which work on solar power to increase efficiency and sustainability in agriculture.

- **Climate Smart Digital Agriculture**

Climate Smart Digital Agriculture addresses climate challenges and promotes sustainable farming practices. Sciences, who spoke on integrated farming, crop insurance and value-added products in terms of bringing about the increment in farmers' incomes. It also highlighted the need for agricultural universities to inspire young minds to take an interest in farming. Additionally, it emphasized how innovation could economically empower farmers.

Visitors can see demonstrations of automated boom sprayers, fertilizer broadcasters, depth controllers, AI-powered smart beehives, and solar-operated bird scarers. The event will also introduce new crop varieties and farming tools that can handle changing climates. Experts will hold panels to discuss sustainable farming practices.

One exciting feature will be KrishiBot, a battery-operated smart farming assistant that helps with precision seeding and fertilization. The mela will present a range of desi and exotic edible leaves, flowers, fruits, and vegetables, using methods like dry farming and hydroponics.

- **Organic Farming**

Organic agricultural methods are internationally regulated and legally enforced by transnational organizations and many nations, based in large part on the standards set by the International Federation of Organic Agriculture Movements (IFOAM), an international umbrella organization for organic farming organizations established in

1972, with regional branches such as IFOAM Organics Europe and IFOAM Asia. Organic agriculture can be defined as an integrated farming system that strives for sustainability, the enhancement of soil fertility and biological diversity while with rare exceptions, prohibiting synthetic pesticides, antibiotics synthetic fertilizers genetically modified organisms, and growth hormones

Organic agriculture is based on the principles of health, care for all living beings and the environment, ecology and fairness.

- **Precision agriculture Farming**

Everyone in the agricultural industry, including teachers, is still getting their feet wet with precision agriculture technologies. Precision agriculture has led many to believe that industry-related technologies should lead research and education instead of the other way around. In classrooms, conferences, workshops, and field days, educators of precision agriculture have struggled to keep up with the number of questions being asked. Training people to use precision agriculture technologies has proven difficult, in contrast to teaching the fundamental ideas and concepts, which have been intuitive and rather straightforward.

- **Different types of Horticultural crops**

The 2024 Krishi Mela in Bengaluru, India will showcase a variety of horticultural crops, including:

- Arka Nihira: A hybrid green chili with a yield potential of 30 tonnes per hectare
- Arka Bhringraj: A plant that produces a high dry biomass yield
- Arka Vertical Farming Module: An 11-tiered vertical structure that saves water and has a loading capacity of 2 tonnes
- Arka Onion Bulblet Planter: A field planting capacity of 0.12 hectare per hour
- Arka Fresh Cut Fruit Technology: A ready-to-eat fruit technology for jackfruit, pineapple, and papaya
- Arka Madhu: A dwarf French marigold with a double-colored flower

Key Attractions for Visitors:

Latest Technologies: The latest innovation in farming equipment and techniques will be shared with the participants.

Knowledge Sessions: Seminars, workshops, and panel discussions conducted by industry experts will provide knowledge-generating insights.

Networking: A platform to connect with policymakers, professionals, and fellow farmers.

Government Support: Scheme details and policies that support the agricultural sector.

Market Trends and Business Opportunities: Pricing, Consumer Preferences, and more opportunities for collaboration.

Live Demonstrations: Hands-on experiences on latest farming mechanism and techniques.

Advantages for Farmers and Agri-Entrepreneurs

Boost Productivity: Learn about advanced techniques and high-quality inputs.

Reduce Costs: Discover efficient resource management strategies.

Enhance Quality: Access information on quality control measures and post-harvest technologies.

Adapt to Climate Change: Explore practices to mitigate climate variability.

Diversify Income: Learn about value-addition and agro-processing opportunities.

Krishithon 2024 will focus on promoting sustainable rural development and economic growth. Therefore, if you are looking to do business in India's fast-changing agricultural landscape.

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**No. of students visit : 2nd year B.E Students and 3rd year B.E Students
Agricultural Engineering Students**