



2 ZERO HUNGER



SDG - 2

ZERO HUNGER End hunger, achieve food security and improved nutrition and promote sustainable agriculture

" Community Initiatives "
Innovating Agriculture: Cultivation, Processing, and Product Development

The School of Agriculture at Galgotias University is dedicated to supporting SDG 2: Zero Hunger by promoting sustainable agricultural practices and innovative solutions. Our focus on crop cultivation, food processing, and production integrates cutting-edge technologies with environmentally responsible methods to enhance food security and agricultural productivity. Through interdisciplinary collaboration, we bring together the expertise of faculty, students, and industry partners to address contemporary agricultural challenges. These efforts include research-driven product development projects that optimize resource use, improve crop yields, and reduce food wastage, ensuring a more resilient and efficient food system. By fostering innovation and sustainability in agriculture, the School aims to empower farmers, advance agro-industries, and contribute to global efforts toward eliminating hunger. These initiatives exemplify our commitment to building a future where nutritious food is accessible to all, aligning with the goals of sustainable development and environmental stewardship.

The support from Galgotias University ensures that the Naari Utthan Self-Help Group has access to necessary resources, training, and market exposure, enhancing the overall success of the initiative. This project is a step towards sustainable rural development, focusing on the long-term empowerment of women in agriculture and crafts.

Off Campus extension services with Krishi Vigyan Kendra

Galgotias Off Campus extension services with Krishi Vigyan Kendra have significantly contributed to the empowerment of local farmers and the promotion of sustainable agricultural practices with strengthening the connection between the academic institution and the farmers, fostering a spirit of mutual growth. We prioritized local sourcing that helped us in strengthening regional economies by providing financial support to nearby communities. such extension services in the Choulas, Bhagalpur region. We source products from sustainable sources, universities that encourages responsible farming,

" Startups with SDG - 2 "

Farmers' Friend - Consultancy for farmers and entrepreneurs.

Hindustan AI - Waste Food & Nutrition Food Detection using Artificial Intelligence.



Rural Development
Food Security
Nutrition
Sustainable Agriculture

Galgotias University proudly aligns with Sustainable Development Goal 2 (SDG 2), which aims to eradicate hunger in all its forms by 2030. With a focus on ensuring access to essential resources, proper nutrition, and sustainable food practices, the university leverages the transformative power of education to break the cycle of poor nutrition and poverty. Through campus initiatives like a food waste tracking system, diverse menus, free distribution of rice and wheat grown on campus, and an experimental farm supplying organic vegetables, Galgotias fosters awareness and action for sustainable food systems. Engaging the community further, the university organized the International Conference on "Technology-Driven Agriculture to Face Imminent Future Challenges," in collaboration with ICAR-Central Institute of Temperate Horticulture and the All India Agricultural Students Association. Its School of Agriculture offers local farmers access to advanced facilities for crop experimentation and soil testing, enhancing yields and diversity. Initiatives such as Organic Farming Training, setting up organic product ventures in Kanasa Kanarsi, and hands-on workshops empower communities to adopt sustainable practices. Together with villagers and local stakeholders, Galgotias University is paving the way for a hunger-free future, championing sustainable farming, community-based solutions, and resource-sharing for a better tomorrow.

" Program Offered on Sustainability "

- Doctor of Philosophy (Ph.D.) in Environmental Sciences
- M.Sc. in Sustainability

Courses Offered

- (A1UA101B) Fundamentals of Horticulture- B.Sc. (Hons.)
- (K1UB406T) Indian Economic Issues- BA (H) Economics
- (MBDS6004) Entrepreneurship- MBA Dual
- (AGRON506) Agronomy of Major cereals and Pulses

Diverse Research focused on SDG-2 at Galgotias University



production, and manufacturing practices that prioritize environmental conservation and ethical treatment of workers. Galgotias University has subsidized the cost of meals in on-campus cafeterias making it more affordable for students and staff to access healthy food. Full-fledged crop cafeteria, in house pantries make the campus a holistic environment to provide affordable food choices.

Growing with Learning

Galgotias University laboratories a shared growing space equipped with advanced equipment are a valuable resource for local farmers that helps in soil testing, disease diagnosis, and other analytical processes critical for sustainable farming. Also, the greenhouse facility provides local farmers with space to experiment with controlled environments, test different crops, and extend growing seasons, contributing to increased crop yields and agricultural diversity. To provide practical knowledge to improve agricultural techniques our university host workshops, training sessions, and field days to teach farmers about sustainable farming practices, soil conservation, pest management, and crop rotation.

" Research aligned with SDG-2 "

Policy interventions for promoting food security research at Galgotias University outlines key policy interventions aimed at promoting food security by addressing issues related to production, distribution, and access to nutritious food.

- Renowned scholars from Galgotias University, alongside educators and professionals from diverse fields, have embarked upon intensive research projects predominantly centered around Sustainable Development Goal 2 (SDG 2)
- Food waste in Indian households: status and potential solutions.
- Improvement in Flowering, Yield and Vase Life of French Marigold (Red Brocade) through Application of Mustard Oil Cake and Vermicompost Extracts.
- Robust Video Watermarking Algorithm based on DCT-SVD approach and Encryption.
- Nanoengineered particles for sustainable crop production: potentials and challenges.
- Edge AI for real-time and intelligent agriculture. Analysis of Soil Categorization for Improving Productivity with Machine Learning.
- A Comparative Analysis and Design Criteria of MAC, SMAC, and TMAC Protocols in Wireless Sensor Network. Role of Satellites in Agriculture.

" University Operations "



Campus Food Waste Tracking System, Each day, measurements are taken regarding the quantity of food wasted at Galgotias university's dining establishments and communal eating spaces. Food waste is divided into dry materials which serve as livestock feed and liquid waste that enters sewage treatment plants. Additionally, vegetable scraps and other organic-based waste items undergo composting processes.

This incorporates multiple forms of biomass along with fallen leaves to generate nutrient-rich soil amendments known as leaf mold or compost tea. Taking efficient measures and maintaining daily food waste log, we have reduced food wastage.

" Partnerships & Engagements "

3-days International Conference on "Technology Driven Agriculture to face Imminent future challenges" was jointly organised with Central Institute of Temperature Horticulture and All India Agriculture Students Association

Greenhouse facilities provide local farmers with space to experiment with controlled environments, test different crops, and extend growing seasons, contributing to increased crop yields and agricultural diversity.

Organised a comprehensive **organic farming training program and the establishment of organic product setup**, including the production of Jeeva-Amrit, vermicompost, vermiwash and other sustainable agricultural inputs at adopted village, Kanarsa Kanarsi. This initiative aligns with our commitment to promoting sustainable agriculture and ecosystem restoration.

Soil testing/Hands on Trainings for farmers of adjoining areas at School of Agriculture Galgotias University's laboratories help in soil testing, disease diagnosis, and other analytical processes critical for sustainable farming.

